





# Pneumatically operated 2/2-way angle seat valve ELEMENT for decentralized automation

- High flow rates
- Long service life
- Easy integration of automation units with ELEMENT
- Flow-optimised stainless steel valve body with sleeve, clamp or weld connection
- Suitable for steam

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

## Can be combined with



**Type 8690**
Pneumatic control unit for decentralised automation of process valves ELEMENT



**Type 8691**
Control head for decentralised automation of ELEMENT process valves



**Type 8695**
Control head for decentralised automation of ELEMENT process valves



**Type 8697**
Pneumatic control unit for decentralised automation of process valves ELEMENT



**Type 8801**
On/off valve systems ELEMENT with decentralised automation – overview



**Type 8840**
Modular process valve cluster – distributor and collector

## Type description

The Type 2100 angle seat valve is specially optimised for decentralized process automation and fulfils the tough criteria in process environments. Its unique design allows easy the integration of automation units in all expansion stages, from electrical/optical position feedback to pneumatic control and integrated fieldbus interface. Maximum service life and tightness are achieved by the proven self-adjusting v-seal packing gland. The highly integrated system of valve and automation unit is characterised by its compact and smooth design, integrated pilot air ducts, protection classes IP65/67, NEMA Type 4X and high resistance to chemicals.

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# 1. General technical data

| | |
|---|---|
| **Product properties** | |
| Dimensions | Further information can be found in chapter "5. Dimensions" on page 9. |
| Material | Further information can be found in chapter "4. Materials" on page 8. |
| Design | Angle seat valve |
| Nominal diameter (port connection) | DN 8...DN 80, NPS ¼...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) |
| **Performance data** | |
| Operating pressure | 0 bar(g)...25 bar(g), vacuum down to - 0.9 bar(g) (option) (see "6.1. Fluidic data" on page 14) |
| Nominal pressure | PN 25 (DIN EN 1333), Class 150 (DIN EN 1759) |
| Pilot pressure | 2.5 bar(g)...10 bar(g) (see "6.1. Fluidic data" on page 14) |
| Seat leakage | Leakage rate A (DIN EN 12266 - 1), seat seal PTFE and PEEK, test medium air |
| $K_v$ value | 1.6 m³/h...140 m³/h (see "6.1. Fluidic data" on page 14) |
| **Medium data** | |
| Operating medium | Steam, water, neutral gases, alcohols, oils, fuels, hydraulic fluids, salt solutions, alkalis, organic solvents, oxygen and fuel gases of families I, II and III in accordance with the Gas Appliances Regulation (EU) 2016/426 |
| Medium temperature | - 40 °C...+ 230 °C (see "6.2. Operating limits" on page 21) |
| Viscosity | Max. 600 mm²/s |
| Control medium | Air, neutral gases |
| **Product connections** | |
| **Port connection** | |
| Internal 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 series 2 / DIN 11866 series A / DIN EN 10357 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 series 2 / DIN EN 10357 series A)<br>ASME BPE |
| Pilot air port | Push-in connector (external Ø 6 mm or ¼") or internal thread G ⅛" (on request) |
| **Approvals and conformities** | |
| Further information can be found in chapter "3. Approvals and conformities" on page 6. | |
| Material certificate | 2.2, 3.1 |
| **Environment and installation** | |
| Environmental factors | Protect the device from electromagnetic interference, UV radiation and, when used outdoors, from weather conditions. |
| Ambient temperature | - 10 °C...+ 100 °C (see "6.2. Operating limits" on page 21) |
| Degree of protection | IP65/67 |
| Installation position | As required, preferably with actuator in upright position |

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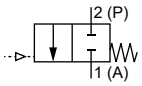
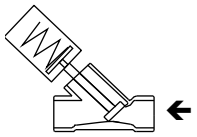
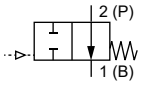
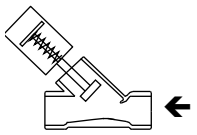
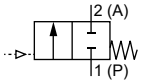
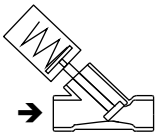
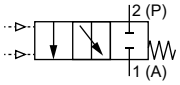
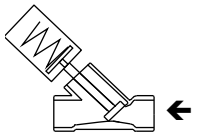
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## 2. Control functions

**⚠ WARNING**

**Risk of injury 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** | | |
|  | **Control function A (CF A)**<br>Pneumatically operated 2/2-way on/off valve<br>Flow direction below seat<br>Normally closed by spring force |  |
|  | **Control function B (CF 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** | | |
|  | **Control function A (CF A)**<br>Pneumatically operated 2/2-way on/off valve<br>Flow direction above seat<br>Normally closed by spring force |  |
| **3-position actuator** | | |
| **Flow direction below seat**<br>For valves with 3-position actuator an adjustable middle position is possible (option) | | |
|  | **Control function A (CF A)**<br>Pneumatically operated 2/3-way position valve<br>Flow direction below seat<br>Normally closed by spring force |  |

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# 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 |
|---|---|
| | **Optional: Explosion protection (valid for the variable code PX51)**<br>As a category 2 device suitable for zone 1/21 and zone 2/22.<br><br>**ATEX:**<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<br><br>**IECEx:**<br>IECEx EPS 18.0007X<br>Ex h IIC T4...T2 Gb<br>Ex h IIIC T135 °C...T300 °C Db |

| Temperature class | T2 | T3 | T4 |
|---|---|---|---|
| Maximum surface temperature | + 300 °C | + 200 °C | + 135 °C |
| Ambient temperature | - 40 °C...+ 130 °C | - 40 °C...+ 130 °C | - 40 °C...+ 100 °C |
| Maximum medium temperature | + 285 °C | + 185 °C | + 125 °C |

**Note:** The ambient and medium temperature range may be limited by non-ex-relevant specifications. Observe the Operating Instructions.

## 3.5. Drinking water

| Conformity | Description |
|---|---|
| $H_2O$ | **Suitable for use in drinking water applications**<br>The materials comply with the assessment principles (UBA) for materials in contact with drinking water (TrinkwasserV).<br><br>**Stainless steel body**<br>PF39: Suitable for products with medium temperature up to 85 °C (hot water) |

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## 3.6. Foods and beverages/Hygiene

| Conformity | Description |
|---|---|
| FDA | **FDA – Code of Federal Regulations (valid for the variable code PL02, PL03)**<br>All wetted materials are compliant with the Code of Federal Regulations published by the FDA (Food and Drug Administration, USA) according to the manufacturer's declaration. |
| USP | **United States Pharmacopeial Convention (USP) (valid for the variable code PL04)**<br>All wetted materials are biocompatible according to the manufacturer's declaration. |
|  | **EC Regulation 1935/2004 of the European Parliament and of the Council (valid for the variable code PL01, PL02)**<br>All wetted materials are compliant with EC Regulation 1935/2004/EC according to the manufacturer's declaration. |
|  | **China food GB Standards of the People's Republic of China (valid for the variable code PL10)**<br>All wetted materials are compliant with the requirement of China food GB Standards according to the manufacturer's declaration. |

## 3.7. Others

### DNV classification

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

### Oxygen

| Conformity | Description |
|---|---|
| $O_2$ | **Optional: Suitability for oxygen (valid for the variable code NL02)**<br>The products are suitable for use with gaseous oxygen, according to the manufacturer's declaration. |

### Fuel gases

| Conformity | Description |
|---|---|
| CE | **Fuel gases (valid for the variable code PO19, PO20)**<br>The products comply with:<br>• Regulation (EU) 2016/426 – Appliances burning gaseous fuels and<br>• DVGW DIN EN 161 (Automatic shut-off valves for gas burners and gas appliances) and<br>• DIN EN 16678, Class A or Class D (Safety and control devices for gas burners and gas burning appliances – Automatic shut-off valves for operating pressure of above 500 kPa up to and including 6 300 kPa) |

### TA Luft

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

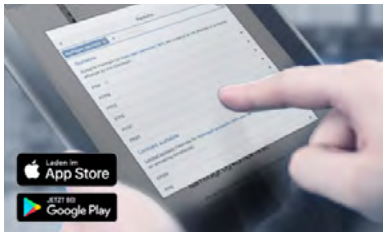
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# 4. Materials

## 4.1. Bürkert resistApp



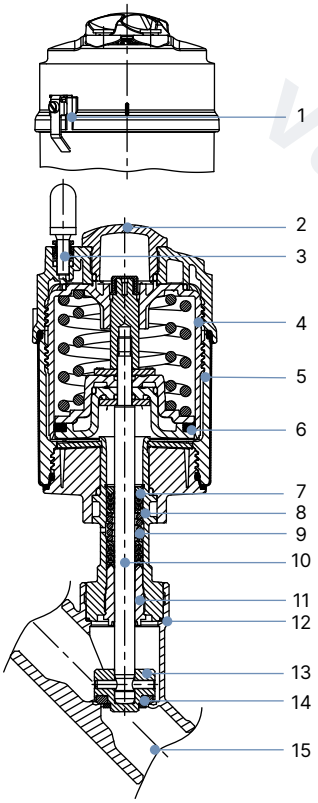

**Bürkert resistApp – Chemical resistance chart**

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

**Note:**
The lubricants for packing gland and actuator are classified according to NSF H1.




| No. | Element | Material |
|---|---|---|
| 1 | Ground terminal | Stainless steel 1.4301/1.4305 only for ATEX variant |
| 2 | Optical position indicator | Optical position indicator Polysulfone PSU |
| 3 | Pilot air ports | Push-in connector PP (Standard)<br>On request: Thread G ⅛" Stainless steel 1.4305 |
| 4 | Actuator cover | PPS |
| 5 | Actuator casing | Stainless steel 1.4561 (316Ti) |
| 6 | Piston seal | FKM |
| 7 | Spring | Stainless steel 1.4310 |
| 8 | Pipe | Stainless steel 1.4401 (316)/1.4404 (316L) |
| 9 | Packing gland | PTFE V-Rings (filled), with spring compensation |
| 10 | Spindle | Stainless steel 1.4401 (316)/1.4404 (316L) |
| 11 | Spindle guide | PEEK |
| 12 | Body seal | Graphite, PTFE (Option) |
| 13 | Swivel plate | Stainless steel 1.4401 (316)/1.4404 (316L) |
| 14 | Seat seal | PTFE, PEEK (Option) |
| 15 | Valve body | Stainless steel CF3M |

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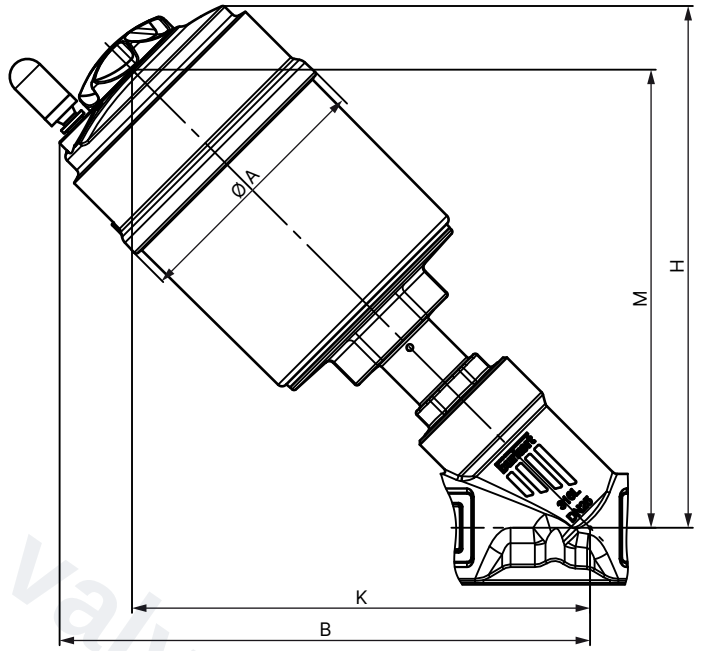
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# 5. Dimensions

## 5.1. Actuator




| Nominal diameter (port connection) | | Actuator size Ø | Ø A | B[1.] | H[1.] | K/M[1.] |
|---|---|---|---|---|---|---|
| DN | NPS | [mm] | [mm] | [mm] | [mm] | [mm] |
| 8 | ⅜ | 50 (D) | 64.5 | 166 | 163 | 147 |
| | | 70 (M) | 91 | 182 | 178 | 156 |
| 10 | ⅜ | 50 (D) | 64.5 | 166 | 163 | 147 |
| | | 70 (M) | 91 | 182 | 178 | 156 |
| 15 | ½ | 50 (D) | 64.5 | 166 | 163 | 147 |
| | | 70 (M) | 91 | 182 | 178 | 156 |
| 20 | ¾ | 50 (D) | 64.5 | 174 | 171 | 155 |
| | | 70 (M) | 91 | 189 | 186 | 163 |
| 25 | 1 | 50 (D) | 64.5 | 175 | 173 | 156 |
| | | 70 (M) | 91 | 191 | 188 | 165 |
| | | 90 (N) | 120 | 229 | 228 | 203 |
| 32 | 1¼ | 70 (M) | 91 | 201 | 197 | 174 |
| | | 90 (N) | 120 | 243 | 242 | 217 |
| | | 130 (P) | 159 | 293 | 293 | 254 |
| 40 | 1½ | 70 (M) | 91 | 204 | 201 | 178 |
| | | 90 (N) | 120 | 246 | 245 | 220 |
| | | 130 (P) | 159 | 296 | 296 | 257 |
| 50 | 2 | 70 (M) | 91 | 223 | 219 | 196 |
| | | 90 (N) | 120 | 262 | 261 | 236 |
| | | 130 (P) | 159 | 312 | 312 | 273 |
| 65 | 2½ | 90 (N) | 120 | 274 | 273 | 248 |
| | | 130 (P) | 159 | 324 | 324 | 285 |
| 80 | 3 | 130 (P) | 159 | 344 | 344 | 305 |

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

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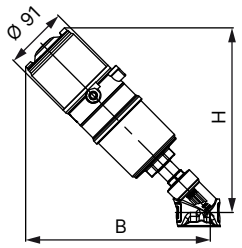
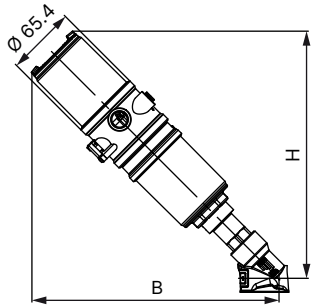
### Valve system on/off ELEMENT

### Actuator with control head and pneumatic controls/position feedback

**Note:**

- Further information can be found in chapter "7. Product accessories" on page 23.
- Dimensions in mm, unless otherwise stated

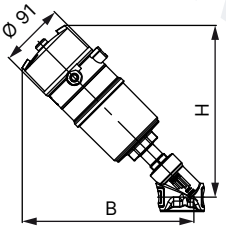
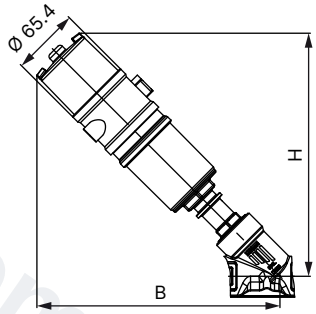
**Control head**

| Type 8691 | Type 8695 |
|---|---|
|  |  |





**Pneumatic control unit/Position feedback**

| Type 8690 | Type 8697 |
|---|---|
|  |  |





| Nominal diameter (port connection) | | Actuator size Ø | B/H [1)] with | |
|---|---|---|---|---|
| DN | NPS | [mm] | Type 8690 or Type 8697 | Type 8691 or Type 8695 |
| 8 | ⅜ | 50 (D) | 226 | 239 |
| | | 70 (M) | 232 | 256 |
| 10 | ⅜ | 50 (D) | 226 | 239 |
| | | 70 (M) | 232 | 256 |
| 15 | ½ | 50 (D) | 226 | 239 |
| | | 70 (M) | 232 | 256 |
| 20 | ¾ | 50 (D) | 234 | 247 |
| | | 70 (M) | 240 | 264 |
| 25 | 1 | 50 (D) | 236 | 249 |
| | | 70 (M) | 242 | 266 |
| | | 90 (N) | 276 | 303 |
| 32 | 1¼ | 70 (M) | 252 | 275 |
| | | 90 (N) | 294 | 318 |
| | | 130 (P) | 328 | 353 |
| 40 | 1½ | 70 (M) | 255 | 279 |
| | | 90 (N) | 297 | 321 |
| | | 130 (P) | 334 | 358 |
| 50 | 2 | 70 (M) | 274 | 297 |
| | | 90 (N) | 313 | 337 |
| | | 130 (P) | 351 | 374 |

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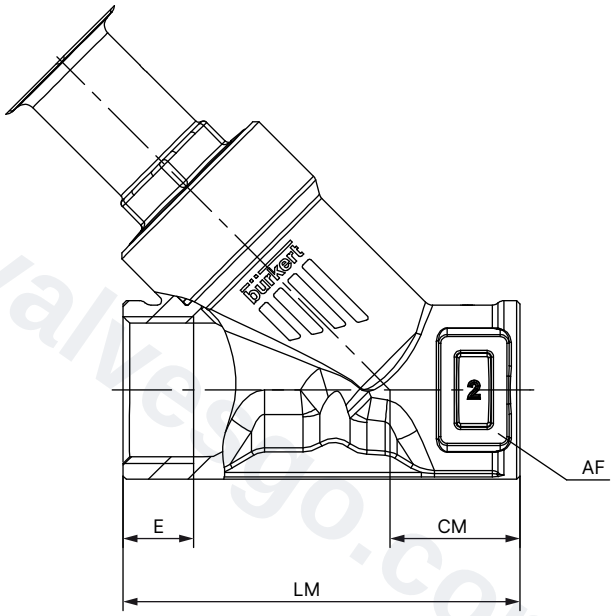
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| Nominal diameter (port connection) | | Actuator size Ø | B/H[1.] with | |
|---|---|---|---|---|
| DN | NPS | [mm] | Type 8690 or Type 8697 | Type 8691 or Type 8695 |
| 65 | 2½ | 90 (N) | 325 | 349 |
| | | 130 (P) | 362 | 386 |
| 80 | 3 | 130 (P) | 382 | 406 |

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

## 5.2. Body with internal 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 | AF |
| DN | NPS | G | NPT | RC | | | |
| 8 | ¼ | 14 | 10 | 9.7 | 24 | 75 | – |
| 10 | ⅜ | 12 | 10.3 | 10.1 | 24 | 65 | 27 |
| 15 | ½ | 14 | 13.7 | 13.2 | 24 | 65 | 27 |
| 20 | ¾ | 16 | 14.0 | 14.5 | 27 | 75 | 34 |
| 25 | 1 | 18 | 16.8 | 16.8 | 29.5 | 90 | 41 |
| 32 | 1¼ | 16 | 17.3 | 19.1 | 36 | 110 | 50 |
| 40 | 1½ | 18 | 17.3 | 19.1 | 35 | 120 | 55 |
| 50 | 2 | 24 | 17.6 | 23.4 | 45 | 150 | 70 |
| 65 | 2½ | 26 | 23.7 | 26.7 | 57 | 185 | 85 |
| 80 | 3 | 28 | – | – | 71 | 220 | 100 |

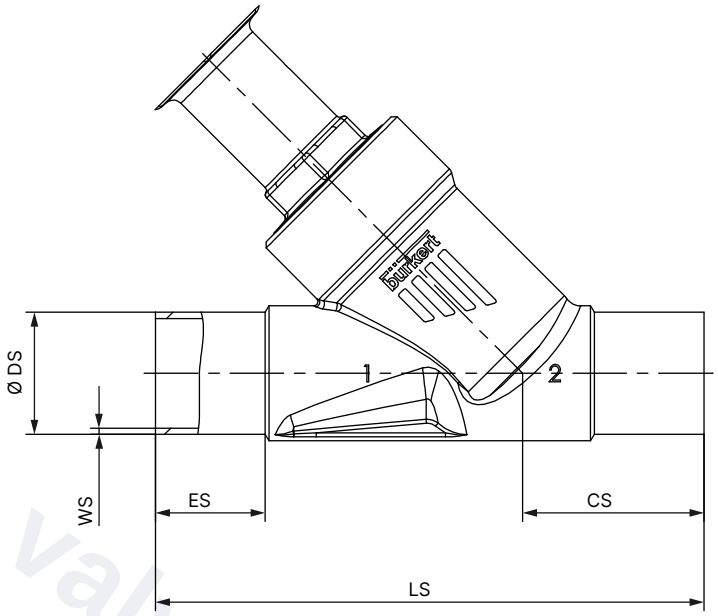
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## 5.3. Body with welded connection

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




| Nominal diameter (port connection) | DIN EN ISO 1127 / ISO 4200 / DIN 11866 series B | | | | | DIN 11850 series 2 / DIN 11866 series A / DIN EN 10357 series A | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| DN | ES | CS | LS | Ø DS | WS | ES | CS | LS | Ø DS | WS |
| 8 | 20 | 34 | 100 | 13.5 | 1.6 | – | – | – | – | – |
| 10 | 20 | 34 | 100 | 17.2 | 1.6 | 30 | 46 | 135 | 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 (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 |

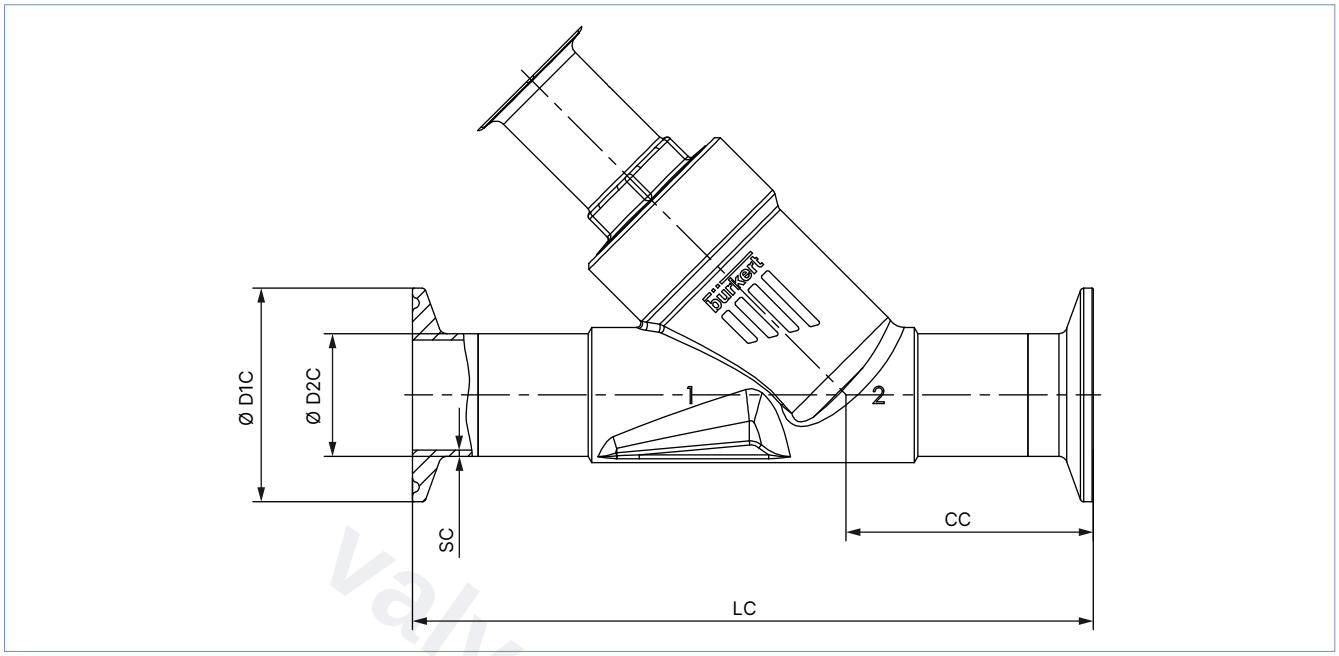
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## 5.4. Body with clamp connection

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




| Nominal diameter (port connection) | Clamp: DIN 32676 series B<br>Pipe: DIN EN ISO 1127 / ISO 4200 / DIN 11866 series B | | | | | Clamp: DIN 32676 series A (DN 15 similar DIN 32676 B)<br>Pipe: DIN 11850 series 2 / DIN 11866 series A /<br>DIN EN 10357 series A | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **DN** | **LC** | **CC** | **Ø D1 C** | **Ø D2 C** | **SC** | **LC** | **CC** | **Ø D1 C** | **Ø D2 C** | **SC** |
| 15 | 156 | 49.0 | 50.5 | 21.3 | 1.6 | 130 | 49.5 | 34.0 | 19 | 1.5 |
| 20 | 150 | 56.5 | 50.5 | 26.9 | 1.6 | 150 | 57.0 | 34.0 | 23 | 1.5 |
| 25 | 160 | 58.0 | 50.5 | 33.7 | 2.0 | 160 | 58.5 | 50.5 | 29 | 1.5 |
| 32 | 200 | 57.5 | 50.5 | 42.4 | 2.0 | 180 | 58.0 | 50.5 | 35 | 1.5 |
| 40 | 200 | 69.0 | 64.0 | 48.3 | 2.0 | 200 | 69.5 | 50.5 | 41 | 1.5 |
| 50 | 230 | 77.5 | 77.5 | 60.3 | 2.6 | 230 | 78.0 | 64.0 | 53 | 1.5 |

| Nominal diameter (port connection) | Clamp: ASME BPE<br>Pipe: ASME BPE / DIN 11866 series C | | | | |
|---|---|---|---|---|---|
| **NPS** | **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 |

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# 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

**Internal threaded connection G, NPT and RC**

| Nominal diameter (port connection) | | Seat size | Actuator size Ø | $K_V$ value water | Pilot pressure min. | Operating pressure max. | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | CF A | | CF B |
| | | | | | | Seat seal | | |
| | | | | | | PTFE | PEEK | PTFE |
| DN | NPS | DN | [mm] | [$m^3/h$] | [bar(g)] | [bar(g)] | [bar(g)] | [bar(g)] |
| 8 | ¼ | 15 | 50 (D) | 2.6 | 5.2 | 25 | 25 | 25 |
| | | | 70 (M) | 2.6 | 4.8 | 25 | 25 | 25 |
| 10 | ⅜ | | 50 (D) | 5.3 | 5.2 | 25 | 25 | 25 |
| | | | 70 (M) | 5.4 | 4.8 | 25 | 25 | 25 |
| 15 | ½ | | 50 (D) | 5.3 | 5.2 | 25 | 25 | 25 |
| | | | 70 (M) | 5.4 | 4.8 | 25 | 25 | 25 |
| 20 | ¾ | 20 | 50 (D) | 10 | 5.2 | 16 | 13.5 | 25 |
| | | | 70 (M) | 11 | 4.8 | 25 | 25 | 25 |
| 25 | 1 | 25 | 50 (D) | 15 | 5.2 | 9 | 7.5 | 25 |
| | | | 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 | 23 | 25 |
| 50 | 2 | 50 | 70 (M) | 49 | 4.8 | 4 | – | 16 |
| | | | 90 (N) | 55 | 5 | 10 | 8 | 25 (20 [1.)]) |
| | | | 130 (P) | 62 | 5 | 25 (20 [1.)]) | 23 (20 [1.)]) | 25 (20 [1.)]) |
| 65 | 2½ | 65 | 90 (N) | 91 | 5 | 5 | – | 14 |
| | | | 130 (P) | 91 | 5.6 | 16 (15 [1.)]) | 12.5 | 16 (15 [1.)]) |
| 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)

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

| Nominal diameter (port connection) | | Seat size | Actuator size Ø | $K_V$ 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)] |
| 10 | ⅜ | 15 | 50 (D) | 2.5 | 5.2 | 25 | 25 | 25 |
| | | | 70 (M) | 2.5 | 4.8 | 25 | 25 | 25 |
| 15 | ½ | | 50 (D) | 5.3 | 5.2 | 25 | 25 | 25 |
| | | | 70 (M) | 5.4 | 4.8 | 25 | 25 | 25 |
| 20 | ¾ | 20 | 50 (D) | 10 | 5.2 | 16 | 13.5 | 25 |
| | | | 70 (M) | 11 | 4.8 | 25 | 25 | 25 |
| 25 | 1 | 25 | 50 (D) | 14 | 5.2 | 9 | – | 25 |
| | | | 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 | 23 | 25 |
| 50 | 2 | 50 | 70 (M) | 49 | 4.8 | 4 | – | 16 |
| | | | 90 (N) | 55 | 5 | 10 | 8 | 25 (20 [1.)]) |
| | | | 130 (P) | 60 | 5 | 25 (20 [1.)]) | 23 (20 [1.)]) | 25 (20 [1.)]) |
| 65 | 2½ | 65 | 90 (N) | 91 | 5 | 5 | – | 14 |
| | | | 130 (P) | 91 | 5.6 | 16 (15 [1.)]) | 12.5 | 16 (15 [1.)]) |
| 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)

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

| Nominal diameter (port connection) | | Seat size | Actuator size Ø | $K_V$ value water | Pilot pressure min. | Operating pressure max. | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | CF A | | CF B |
| | | | | | | Seat seal | | |
| | | | | | | PTFE | PEEK | PTFE |
| OD [mm] | NPS | DN | [mm] | [m³/h] | [bar(g)] | [bar(g)] | [bar(g)] | [bar(g)] |
| 13.5 | – | 15 | 50 (D) | 2.6 | 5.2 | 25 | 25 | 25 |
| | | | 70 (M) | 2.6 | 4.8 | 25 | 25 | 25 |
| 17.2 | | | 50 (D) | 5.3 | 5.2 | 25 | 25 | 25 |
| | | | 70 (M) | 5.4 | 4.8 | 25 | 25 | 25 |
| 21.3 | | | 50 (D) | 5.3 | 5.2 | 25 | 25 | 25 |
| | | | 70 (M) | 5.4 | 4.8 | 25 | 25 | 25 |
| 26.9 | | 20 | 50 (D) | 10 | 5.2 | 16 | 13.5 | 25 |
| | | | 70 (M) | 11 | 4.8 | 25 | 25 | 25 |
| 33.7 | | 25 | 50 (D) | 15 | 5.2 | 9 | – | 25 |
| | | | 70 (M) | 20 | 4.8 | 16 | 13.5 | 25 |
| | | | 90 (N) | 21 | 5 | 25 | 25 | 25 |
| 42.4 | | 32 | 70 (M) | 26 | 4.8 | 8.5 | – | 25 |
| | | | 90 (N) | 28 | 5 | 25 | 19.5 | 25 |
| | | | 130 (P) | 30 | 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 | 23 | 25 |
| 60.3 | | 50 | 70 (M) | 49 | 4.8 | 4 | – | 16 |
| | | | 90 (N) | 55 | 5 | 10 | 8 | 25 (20 [1.]) |
| | | | 130 (P) | 60 | 5 | 25 (20 [1.]) | 23 (20 [1.]) | 25 (20 [1.]) |
| 76.1 | | 65 | 90 (N) | 91 | 5 | 5 | – | 14 |
| | | | 130 (P) | 91 | 5.6 | 16 (15 [1.]) | 12.5 | 16 (15 [1.]) |
| 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)

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

| Nominal diameter (port connection) | | Seat size | Actuator size Ø | $K_V$ 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 | 15 | 50 (D) | 1.6 | 5.2 | 25 | 25 | 25 |
| | | | 70 (M) | 1.6 | 4.8 | 25 | 25 | 25 |
| 20 | ¾ | 20 | 50 (D) | 8.4 | 5.2 | 16 | 13.5 | 25 |
| | | | 70 (M) | 9.4 | 4.8 | 25 | 25 | 25 |
| 25 | 1 | 25 | 50 (D) | 13 | 5.2 | 9 | – | 25 |
| | | | 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 | 23 | 25 |
| 50 | 2 | 50 | 70 (M) | 49 | 4.8 | 4 | – | 16 |
| | | | 90 (N) | 55 | 5 | 10 | 8 | 25 (20 [1.]) |
| | | | 130 (P) | 58 | 5 | 25 (20 [1.]) | 23 (20 [1.]) | 25 (20 [1.]) |
| 65 | 2½ | 65 | 90 (N) | 85 | 5 | 5 | – | 14 |
| | | | 130 (P) | 85 | 5.6 | 16 (15 [1.]) | 12.5 | 16 (15 [1.]) |
| 80 | 3 | | 90 (N) | 91 | 5 | 5 | – | 14 |
| | | | 130 (P) | 91 | 5.6 | 16 (15 [1.]) | 12.5 | 16 (15 [1.]) |
| 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)

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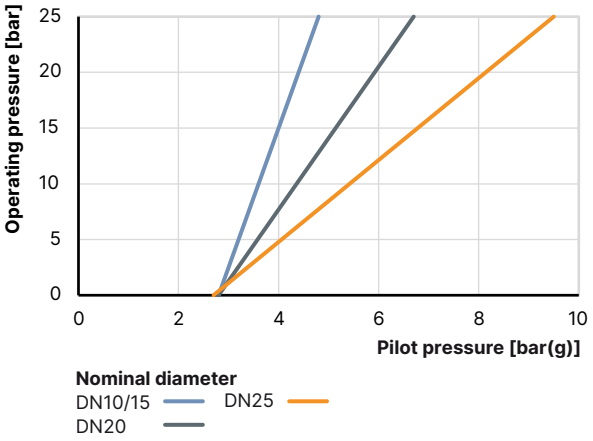
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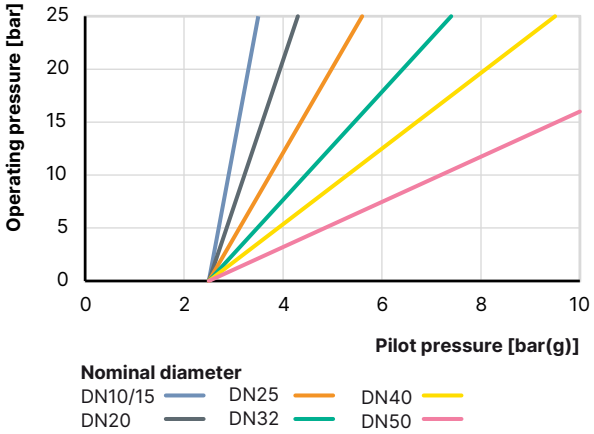
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## Pilot pressure diagrams for flow direction below seat (Control function B)

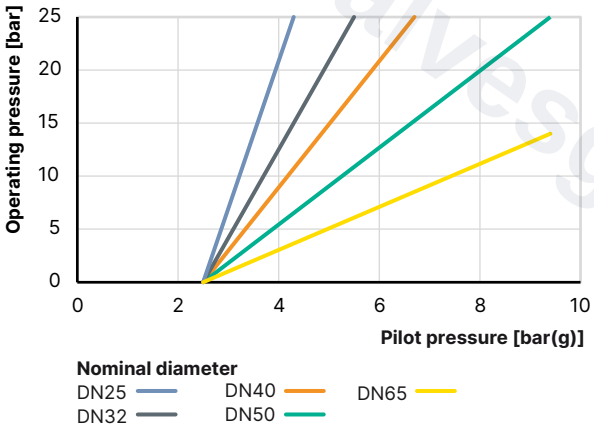
**Actuator size Ø 50 mm**
Maximum control pressure 10 bar(g)



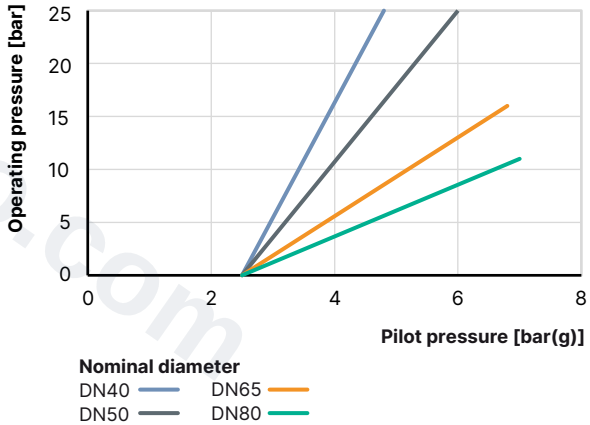

**Actuator size Ø 70 mm**
Maximum control pressure 10 bar(g)




**Actuator size Ø 90 mm**
Maximum control pressure 10 bar(g)




**Actuator size Ø 130 mm**
Maximum control pressure 7 bar(g)




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### Overview of fluidic data with flow above seat (for 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
- $K_V$ value water: see "Overview of fluidic data for flow below seat (for liquids, steam and gases)" on page 14
- Pressure data [bar(g)]: Overpressure to atmospheric pressure

**⚠ WARNING**

**Risk of injury 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. |
|---|---|---|
| | | CF A |
| | | PTFE |
| DN | [mm] | [bar(g)] |
| 15 | 50 (D) | 16 |
| | 70 (M) | 16 |
| 20 | 50 (D) | 16 |
| | 70 (M) | 16 |
| 25 | 50 (D) | 16 |
| | 70 (M) | 16 |
| 32 | 70 (M) | 16 |
| 40 | 70 (M) | 16 |
| | 90 (N) | 16 |
| 50 | 70 (M) | 12 |
| | 90 (N) | 16 |
| 65 | 90 (N) | 8 |

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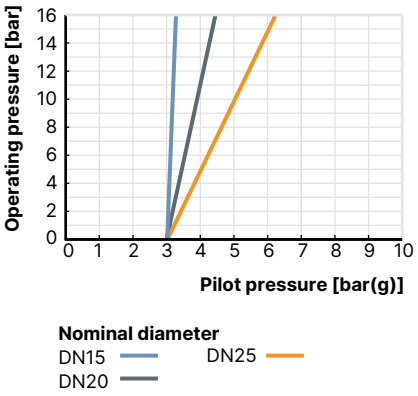
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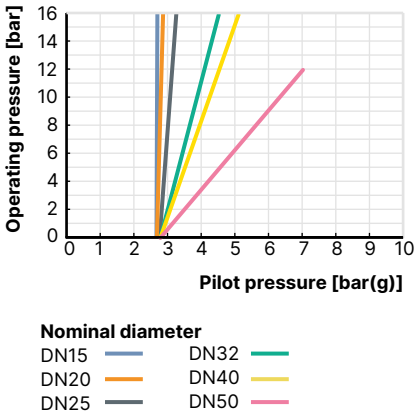
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### Pilot pressure diagram for flow direction above seat (control function A)

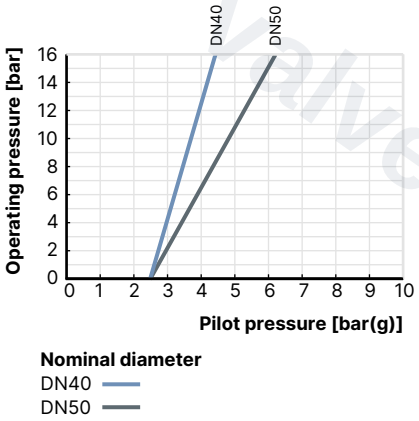
**Actuator size Ø 50 mm**
Maximum control pressure 10 bar(g)




**Actuator size Ø 70 mm**
Maximum control pressure 10 bar(g)




**Actuator size Ø 90 mm**
Maximum control pressure 10 bar(g)




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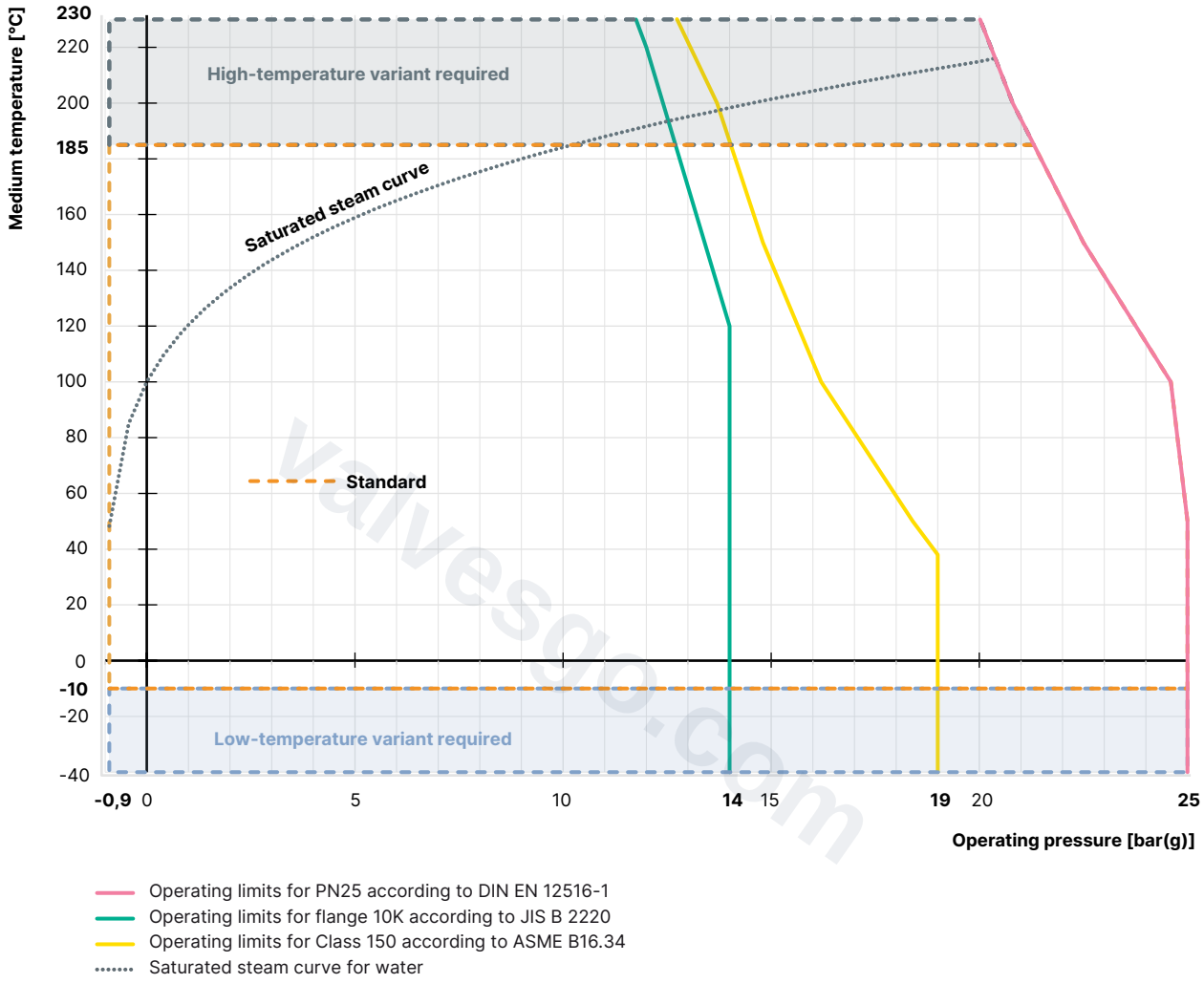


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## 6.2. Operating limits

**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.




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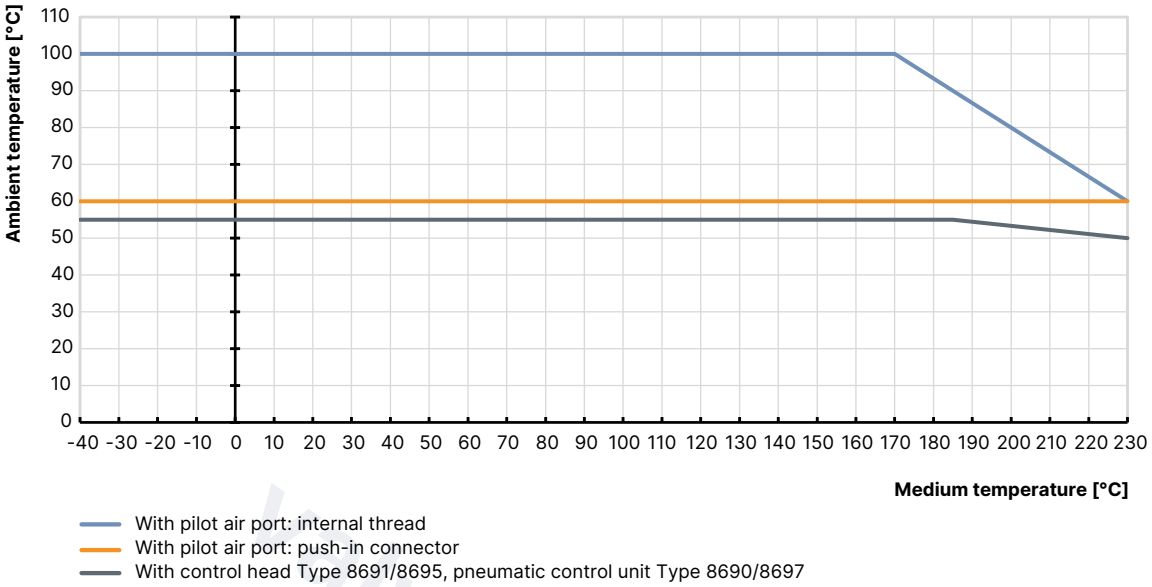
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### Operating limits for ambient and medium temperature

**ELEMENT on/off valve**




### Operating limits for optional variants

**High-temperature variant**
Thanks to an adaption of the packing gland, 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.

**Drinking water variant**
Wetted materials in contact with the medium are tested for suitability with drinking water up to + 85 °C.

**Vacuum variant**
Without relief bore, this design is suitable for pressures down to - 0.9 bar(g).

**Low-temperature variant**
Suitable for medium temperatures down to - 40 °C

**Variant for oxygen**
Non-metallic wetted materials are tested for suitability with oxygen and are suitable for operating pressures up to 25 bar(g) and medium temperatures up to+ 60 °C.

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## 7. Product accessories

**Electrical position indicator**

**Control head**

**Type 8691 ▶ Actuator size Ø 70 mm**



The control heads Type 8691 and Type 8695 are optimised for integrated mounting on process valves of the 21XX series. The valve position is detected without contact via an analogue sensor element. The sensor element automatically detects and stores the valve end positions during commissioning using the teach function. The integrated pilot valve controls single-acting or double-acting actuators. The valve switching status is indicated by coloured high-performance LEDs.

**Features**

- Status indication via coloured high-performance LEDs
- Wear-free inductive position sensor
- Pilot valve with manual override
- Teach function for automatic recognition of valve end positions
- Hygienic stainless steel design
- Easy-to-clean, chemically resistant housing according to IP65/67, 4X rating
- AS-Interface, IO-Link, Bürkert system bus (büS)

**Customer benefits**

- Simple and safe commissioning using the teach function
- Easy process monitoring and fault detection through visible coloured high-performance LEDs
- High degree of system availability through increased actuator service life by means of spring chamber ventilation
- Minimal space requirement in plant piping for more flexibility in plant design

**Type 8695 ▶ Actuator size Ø 50 mm**



**Pneumatic control unit/position feedback**

**Type 8690 ▶ Actuator size Ø 70 mm**



The pneumatic control units Type 8690 and 8697 are optimised for integrated mounting on process valves of the 21XX series. Mechanical or inductive limit switches detect the valve position. The integrated pilot valve controls single-acting or double-acting (Type 8690) actuators.

**Features**

- Optical position indicator
- Mechanical or inductive proximity switches for end position registering
- Pilot valve with manual override
- Compact design
- Easy-to-clean, chemically resistant housing according to IP65/67, 4X rating
- Optionally intrinsically safe design according to ATEX/IECEx

**Customer benefits**

- Simple and safe commissioning using the teach function (Type 8697)
- Minimal space requirement in plant piping for more flexibility in plant design

**Type 8697 ▶ Actuator size Ø 50 mm**



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## 8. Networking and combination with other Bürkert products

The **angle seat valve Type 2100** can be combined with the **position feedback Type 8690/8697** or the **control head Type 8691/8695** to **valve system on/off ELEMENT Type 8801-YE**.

**Note:**

- For the configuration of further valve systems use the **Product Enquiry Form** (see "9.3. Bürkert Product Enquiry Form" on page 25).
- You order two components and receive a completely assembled and tested valve.

**Angle seat valve**



**Type 2100**

| Position feedback | | Control head | |
|---|---|---|---|
|  |  |  |  |
| **Type 8690** ▸ | **Type 8697** ▸ | **Type 8691** ▸ | **Type 8695** ▸ |
| Pneumatic control for decentralised automation of ELEMENT process valves | | Control head for decentralised automation of ELEMENT process valves | |

**Valve system on/off ELEMENT**

| | | | |
|---|---|---|---|
|  |  |  |  |
| **Type 8801-YE-K** | **Type 8801-YE-U** | **Type 8801-YE-H** | **Type 8801-YE-M** |
| on/off ELEMENT valve system with decentralised automation | | | |

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# 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

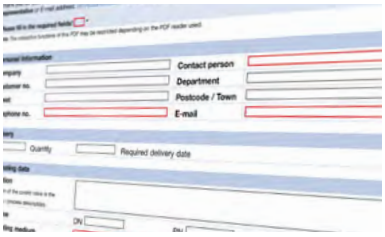


**Bürkert product filter – Get quickly to the right product**

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




**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

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## 9.4. Ordering chart variant with internal threaded

**Valves with flow direction below seat**

| Control function | Nominal diameter (port connection) | Internal threaded connection | Actuator size Ø | Pilot pressure min. | Operating pressure max. | Article no. | Article no. ATEX II 2GD certified (mechanical) |
|---|---|---|---|---|---|---|---|
| | DN | [inch] | [mm] | [bar(g)] | [bar(g)] | | |
| **A (CF A)** see control functions 1.) | 15 | G ½ | 50 (D) | 5.2 | 25 | 213619 | 259510 |
| | | G ½ | 70 (M) | 5.0 | 25 | 213620 | 259511 |
| | 20 | G ¾ | 50 (D) | 5.2 | 16 | 227616 | 259513 |
| | | G ¾ | 70 (M) | 5.0 | 25 | 213621 | 259515 |
| | 25 | G 1 | 50 (D) | 5.2 | 9 | 227617 | 259516 |
| | | G 1 | 70 (M) | 5.0 | 16 | 213622 | 259517 |
| | 32 | G 1¼ | 70 (M) | 5.0 | 8.5 | 213623 | 259519 |
| | | G 1¼ | 90 (N) | 5.0 | 25 | 213624 | 259521 |
| | 40 | G 1½ | 70 (M) | 5.0 | 6 | 213625 | 259523 |
| | | G 1½ | 90 (N) | 5.0 | 16 | 213627 | 259524 |
| | 50 | G 2 | 90 (N) | 5.0 | 10 | 175108 | 259525 |
| | | G 2 | 130 (P) | 5.0 | 25 (20 3.)) | 188610 | 259526 |
| | 65 | G 2½ | 90 (N) | 5.0 | 5 | 239456 | 259527 |
| | | G 2½ | 130 (P) | 5.6 | 16 (15 3.)) | 239472 | 259530 |
| **B (CF B)** see control functions 1.) | 15 | G ½ | 50 (D) | See diagram 2.) | 25 | 213637 | 259531 |
| | | G ½ | 70 (M) | | 25 | 213638 | 259532 |
| | 20 | G ¾ | 50 (D) | | 25 | 213639 | 259533 |
| | | G ¾ | 70 (M) | | 25 | 213640 | 259535 |
| | 25 | G 1 | 70 (M) | | 25 | 213641 | 259537 |
| | 32 | G 1¼ | 70 (M) | | 25 | 213642 | 259538 |
| | 40 | G 1½ | 70 (M) | | 25 | 213643 | 259539 |
| | 50 | G 2 | 70 (M) | | 16 | 175123 | 259540 |
| | 65 | G 2½ | 90 (N) | | 14 | 239464 | 259565 |
| | | G 2½ | 130 (P) | | 16 (15 3.) ) | 239479 | 259566 |

1.) Further information can be found in chapter "2. Control functions" on page 5.

2.) See diagram in chapter "Pilot pressure diagrams for flow direction below seat (Control function B)" on page 18

3.) 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)

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| Control function | Nominal diameter (port connection) | Internal threaded connection | Actuator size Ø | Pilot pressure min. | Operating pressure max. | Article no. |
|---|---|---|---|---|---|---|
| | DN | [inch] | [mm] | [bar(g)] | [bar(g)] | |
| **A (CF A)** see control functions 1.) | 15 | NPT ½ | 50 (D) | 5.2 | 25 | 213644 |
| | | NPT ½ | 70 (M) | 5.0 | 25 | 213645 |
| | 20 | NPT ¾ | 50 (D) | 5.2 | 16 | 227618 |
| | | NPT ¾ | 70 (M) | 5.0 | 25 | 213646 |
| | 25 | NPT 1 | 50 (D) | 5.2 | 9 | 227619 |
| | | NPT 1 | 70 (M) | 5.0 | 16 | 213647 |
| | 32 | NPT 1¼ | 70 (M) | 5.0 | 8.5 | 213648 |
| | | NPT 1¼ | 90 (N) | 5.0 | 25 | 213649 |
| | 40 | NPT 1½ | 70 (M) | 5.0 | 6 | 213650 |
| | | NPT 1½ | 90 (N) | 5.0 | 16 | 213651 |
| | 50 | NPT 2 | 90 (N) | 5.0 | 10 | 188641 |
| | | NPT 2 | 130 (P) | 5.0 | 25 (20 3.)) | 188642 |
| | 65 | NPT 2½ | 90 (N) | 5.0 | 5 | 239457 |
| | | NPT 2½ | 130 (P) | 5.6 | 16 (15 3.)) | 239473 |
| **B (CF B)** see control functions 1.) | 15 | NPT ½ | 50 (D) | See diagram 2.) | 25 | 213661 |
| | | NPT ½ | 70 (M) | | 25 | 213662 |
| | 20 | NPT ¾ | 50 (D) | | 25 | 213663 |
| | | NPT ¾ | 70 (M) | | 25 | 213664 |
| | 25 | NPT 1 | 70 (M) | | 25 | 213665 |
| | 32 | NPT 1¼ | 70 (M) | | 25 | 213666 |
| | 40 | NPT 1½ | 70 (M) | | 25 | 213667 |
| | 50 | NPT 2 | 70 (M) | | 16 | 188656 |
| | 65 | NPT 2½ | 90 (N) | | 14 | 239465 |
| | | NPT 2½ | 130 (P) | | 16 (15 3.)) | 239480 |

1.) Further information can be found in chapter "2. Control functions" on page 5.
2.) See diagram in chapter "Pilot pressure diagrams for flow direction below seat (Control function B)" on page 18
3.) 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)

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| Control function | Nominal diameter (port connection) | Internal threaded connection | Actuator size Ø | Pilot pressure min. | Operating pressure max. | Article no. |
|---|---|---|---|---|---|---|
| | DN | [inch] | [mm] | [bar(g)] | [bar(g)] | |
| **A (CF A)** see control functions [1.] | 15 | RC ½ | 50 (D) | 5.2 | 25 | 213668 |
| | | RC ½ | 70 (M) | 5.0 | 25 | 213669 |
| | 20 | RC ¾ | 50 (D) | 5.2 | 16 | 227621 |
| | | RC ¾ | 70 (M) | 5.0 | 25 | 213670 |
| | 25 | RC 1 | 50 (D) | 5.2 | 9 | 227622 |
| | | RC 1 | 70 (M) | 5.0 | 16 | 213671 |
| | 32 | RC 1¼ | 70 (M) | 5.0 | 8.5 | 213672 |
| | | RC 1¼ | 90 (N) | 5.0 | 25 | 213673 |
| | 40 | RC 1½ | 70 (M) | 5.0 | 6 | 213674 |
| | | RC 1½ | 90 (N) | 5.0 | 16 | 213675 |
| | 50 | RC 2 | 90 (N) | 5.0 | 10 | 188664 |
| | | RC 2 | 130 (P) | 5.0 | 25 (20 [3.]) | 188665 |
| | 65 | RC 2½ | 90 (N) | 5.0 | 5 | 239458 |
| | | RC 2½ | 130 (P) | 5.6 | 16 (15 [3.]) | 239474 |
| **B (CF B)** see control functions [1.] | 15 | RC ½ | 50 (D) | See diagram [2.] | 25 | 213685 |
| | | RC ½ | 70 (M) | | 25 | 213686 |
| | 20 | RC ¾ | 50 (D) | | 25 | 213687 |
| | | RC ¾ | 70 (M) | | 25 | 213688 |
| | 25 | RC 1 | 70 (M) | | 25 | 213689 |
| | 32 | RC 1¼ | 70 (M) | | 25 | 213690 |
| | 40 | RC 1½ | 70 (M) | | 25 | 213691 |
| | 50 | RC 2 | 70 (M) | | 16 | 188679 |
| | 65 | RC 2½ | 90 (N) | | 14 | 239466 |
| | | RC 2½ | 130 (P) | | 16 (15 [3.]) | 239481 |

1.) Further information can be found in chapter "2. Control functions" on page 5.
2.) See diagram in chapter "Pilot pressure diagrams for flow direction below seat (Control function B)" on page 18
3.) 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)

## Further variants on request

**Approval**
Food contact, drinking water, oxygen, fuel gases, explosion protection

**Pressure**
Other variants for operating pressures up to 25 bar(g)
Vacuum variant down to - 0.9 bar(g)

**Material**
Seal: NBR, FKM, EPDM

**Temperature**
High temperature variant up to + 230 °C
Hot water variant up to + 200 °C
Low temperature variant down to - 40 °C

**Process connection**
Clamp connection, welded connection

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### Valves with flow direction above seat

| Control function | Nominal diameter (port connection) | Internal threaded connection | Actuator size Ø | Pilot pressure min. | Operating pressure max. | Article no. | Article no. ATEX II 2GD certified (mechanical) |
|---|---|---|---|---|---|---|---|
| | DN | [inch] | [mm] | [bar(g)] | [bar(g)] | | |
| **A (CF A)** see control functions [1.] | 15 | G ½ | 50 (D) | See diagram [2.] | 16 | 213628 | 259567 |
| | | G ½ | 70 (M) | | 16 | 213629 | 259568 |
| | 20 | G ¾ | 50 (D) | | 16 | 213630 | 259569 |
| | | G ¾ | 70 (M) | | 16 | 213631 | 259571 |
| | 25 | G 1 | 50 (D) | | 16 | 213632 | 259573 |
| | | G 1 | 70 (M) | | 16 | 213633 | 259575 |
| | 32 | G 1¼ | 70 (M) | | 16 | 213634 | 259576 |
| | 40 | G 1½ | 70 (M) | | 16 | 213635 | 259577 |
| | | G 1½ | 90 (N) | | 16 | 213636 | 259578 |
| | 50 | G 2 | 70 (M) | | 12 | 175115 | 259579 |
| | | G 2 | 90 (N) | | 16 | 175116 | 259580 |

1.) Further information can be found in chapter "2. Control functions" on page 5.
2.) See diagram in chapter "Pilot pressure diagram for flow direction above seat (control function A)" on page 20

| Control function | Nominal diameter (port connection) | Internal threaded connection | Actuator size Ø | Pilot pressure min. | Operating pressure max. | Article no. |
|---|---|---|---|---|---|---|
| | DN | [inch] | [mm] | [bar(g)] | [bar(g)] | |
| **A (CF A)** see control functions [1.] | 15 | NPT ½ | 50 (D) | See diagram [2.] | 16 | 213652 |
| | | NPT ½ | 70 (M) | | 16 | 213653 |
| | 20 | NPT ¾ | 50 (D) | | 16 | 213654 |
| | | NPT ¾ | 70 (M) | | 16 | 213655 |
| | 25 | NPT 1 | 50 (D) | | 16 | 213656 |
| | | NPT 1 | 70 (M) | | 16 | 213657 |
| | 32 | NPT 1¼ | 70 (M) | | 16 | 213658 |
| | 40 | NPT 1½ | 70 (M) | | 16 | 213659 |
| | 50 | NPT 2 | 70 (M) | | 12 | 188649 |

1.) Further information can be found in chapter "2. Control functions" on page 5.
2.) See diagram in chapter "Pilot pressure diagram for flow direction above seat (control function A)" on page 20

| Control function | Nominal diameter (port connection) | Internal threaded connection | Actuator size Ø | Pilot pressure min. | Operating pressure max. | Article no. |
|---|---|---|---|---|---|---|
| | DN | [inch] | [mm] | [bar(g)] | [bar(g)] | |
| **A (CF A)** see control functions [1.] | 15 | RC ½ | 50 (D) | See diagram [2.] | 16 | 213676 |
| | | RC ½ | 70 (M) | | 16 | 213677 |
| | 20 | RC ¾ | 50 (D) | | 16 | 213678 |
| | | RC ¾ | 70 (M) | | 16 | 213679 |
| | 25 | RC 1 | 50 (D) | | 16 | 213680 |
| | | RC 1 | 70 (M) | | 16 | 213681 |
| | 32 | RC 1¼ | 70 (M) | | 16 | 213682 |
| | 40 | RC 1½ | 70 (M) | | 16 | 213683 |
| | 50 | RC 2 | 70 (M) | | 12 | 188672 |

1.) Further information can be found in chapter "2. Control functions" on page 5.
2.) See diagram in chapter "Pilot pressure diagram for flow direction above seat (control function A)" on page 20

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## 9.5. Ordering chart variant with welded

**Valves with flow direction below seat**

| Control function | Nominal diameter (port connection) | Port connection pipe Ø | Actuator size Ø | Pilot pressure min. | Operating pressure max. | Article no. |
|---|---|---|---|---|---|---|
| | DN | [mm] | [mm] | [bar(g)] | [bar(g)] | |
| **DIN EN ISO 1127 / ISO 4200** | | | | | | |
| **A (CF A)** see control functions [1.)] | 15 | 21.3 × 1.6 | 50 (D) | 5.2 | 25 | 187065 |
| | | 21.3 × 1.6 | 70 (M) | 5.0 | 25 | 188680 |
| | 20 | 26.9 × 1.6 | 50 (D) | 5.2 | 16 | 210399 |
| | | 26.9 × 1.6 | 70 (M) | 5.0 | 25 | 188681 |
| | 25 | 33.7 × 2.0 | 50 (D) | 5.2 | 9 | 235519 |
| | | 33.7 × 2.0 | 70 (M) | 5.0 | 16 | 188682 |
| | 32 | 42.4 × 2.0 | 70 (M) | 5.0 | 8.5 | 188683 |
| | | 42.4 × 2.0 | 90 (N) | 5.0 | 25 | 188684 |
| | 40 | 48.3 × 2.0 | 70 (M) | 5.0 | 6 | 188685 |
| | | 48.3 × 2.0 | 90 (N) | 5.0 | 16 | 188686 |
| | 50 | 60.3 × 2.0 | 90 (N) | 5.0 | 10 | 283500 |
| | | 60.3 × 2.0 | 130 (P) | 5.0 | 25 (20 [3.)]) | 283501 |
| | 65 | 76.1 × 2.3 | 90 (N) | 5.0 | 5 | 239459 |
| | | 76.1 × 2.3 | 130 (P) | 5.6 | 16 (15 [3.)]) | 239475 |
| **B (CF B)** see control functions [1.)] | 15 | 21.3 × 1.6 | 50 (D) | See diagram [2.)] | 25 | 187069 |
| | | 21.3 × 1.6 | 70 (M) | | 25 | 188697 |
| | 20 | 26.9 × 1.6 | 50 (D) | | 25 | 187070 |
| | | 26.9 × 1.6 | 70 (M) | | 25 | 188698 |
| | 25 | 33.7 × 2.0 | 70 (M) | | 25 | 188699 |
| | 32 | 42.4 × 2.0 | 70 (M) | | 25 | 188700 |
| | 40 | 48.3 × 2.0 | 70 (M) | | 25 | 188701 |
| | 50 | 60.3 × 2.0 | 70 (M) | | 16 | 283504 |
| | 65 | 76.1 × 2.3 | 90 (N) | | 14 | 239467 |
| | | 76.1 × 2.3 | 130 (P) | | 16 (15 [3.)]) | 239482 |
| **DIN 11850 series 2 / DIN EN 10357 series A** | | | | | | |
| **A (CF A)** see control functions [1.)] | 15 | 13.0 × 1.5 | 50 (D) | 5.2 | 25 | 187071 |
| | | 13.0 × 1.5 | 70 (M) | 5.0 | 25 | 188703 |
| | 20 | 23.0 × 1.5 | 50 (D) | 5.2 | 16 | 227605 |
| | | 23.0 × 1.5 | 70 (M) | 5.0 | 25 | 188704 |
| | 25 | 29.0 × 1.5 | 50 (D) | 5.2 | 9 | 221922 |
| | | 29.0 × 1.5 | 70 (M) | 5.0 | 16 | 188705 |
| | 32 | 35.0 × 1.5 | 70 (M) | 5.0 | 8.5 | 188706 |
| | | 35.0 × 1.5 | 90 (N) | 5.0 | 25 | 188707 |
| | 40 | 41.0 × 1.5 | 70 (M) | 5.0 | 6 | 188708 |
| | | 41.0 × 1.5 | 90 (N) | 5.0 | 16 | 188709 |
| | 50 | 53.0 × 1.5 | 90 (N) | 5.0 | 10 | 188710 |
| | | 53.0 × 1.5 | 130 (P) | 5.0 | 25 (20 [3.)]) | 188711 |
| | 65 | 70.0 × 2.0 | 90 (N) | 5.0 | 5 | 239460 |
| | | 70.0 × 2.0 | 130 (P) | 5.6 | 16 (15 [3.)]) | 237020 |
| **B (CF B)** see control functions [1.)] | 15 | 13.0 × 1.5 | 50 (D) | See diagram [2.)] | 25 | 187075 |
| | | 13.0 × 1.5 | 70 (M) | | 25 | 188720 |
| | 20 | 23.0 × 1.5 | 50 (D) | | 25 | 187076 |
| | | 23.0 × 1.5 | 70 (M) | | 25 | 188721 |
| | 25 | 29.0 × 1.5 | 70 (M) | | 25 | 188722 |
| | 32 | 35.0 × 1.5 | 70 (M) | | 25 | 188723 |
| | 40 | 41.0 × 1.5 | 70 (M) | | 25 | 188724 |
| | 50 | 53.0 × 1.5 | 70 (M) | | 16 | 188725 |
| | 65 | 70.0 × 2.0 | 90 (N) | | 14 | 239468 |
| | | 70.0 × 2.0 | 130 (P) | | 16 (15 [3.)]) | 239483 |

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| Control function | Nominal diameter (port connection) | Port connection pipe Ø | Actuator size Ø | Pilot pressure min. | Operating pressure max. | Article no. |
|---|---|---|---|---|---|---|
| | DN | [mm] | [mm] | [bar(g)] | [bar(g)] | |
| **ASME BPE** | | | | | | |
| **A (CF A)** see control functions [1.] | 15 | 12.7 × 1.65 | 50 (D) | 5.2 | 25 | 187077 |
| | | 12.7 × 1.65 | 70 (M) | 5.0 | 25 | 188726 |
| | 20 | 19.05 × 1.65 | 50 (D) | 5.2 | 16 | 227607 |
| | | 19.05 × 1.65 | 70 (M) | 5.0 | 25 | 188727 |
| | 25 | 25.4 × 1.65 | 50 (D) | 5.2 | 9 | 227608 |
| | | 25.4 × 1.65 | 70 (M) | 5.0 | 16 | 188728 |
| | 40 | 38.1 × 1.65 | 70 (M) | 5.0 | 6 | 188729 |
| | | 38.1 × 1.65 | 90 (N) | 5.0 | 16 | 188730 |
| | 50 | 50.8 × 1.65 | 90 (N) | 5.0 | 10 | 188731 |
| | | 50.8 × 1.65 | 130 (P) | 5.0 | 25 (20 [3.]) | 188732 |
| | 65 | 63.5 × 1.65 | 90 (N) | 5.0 | 5 | 239461 |
| | | 63.5 × 1.65 | 130 (P) | 5.6 | 16 (15 [3.]) | 239478 |
| **B (CF B)** see control functions [1.] | 15 | 12.7 × 1.65 | 50 (D) | See diagram [2.] | 25 | 187082 |
| | | 12.7 × 1.65 | 70 (M) | | 25 | 188740 |
| | 20 | 19.05 × 1.65 | 50 (D) | | 25 | 187083 |
| | | 19.05 × 1.65 | 70 (M) | | 25 | 188741 |
| | 25 | 25.4 × 1.65 | 70 (M) | | 25 | 188742 |
| | 40 | 38.1 × 1.65 | 70 (M) | | 25 | 188781 |
| | 50 | 50.8 × 1.65 | 70 (M) | | 16 | 188744 |
| | 65 | 63.5 × 1.65 | 90 (N) | | 14 | 239469 |
| | | 63.5 × 1.65 | 130 (P) | | 16 (15 [3.]) | 239484 |
| **SMS 3008** | | | | | | |
| **A (CF A)** see control functions [1.] | 15 | 12 × 1.0 | 50 (D) | 5.2 | 25 | 187084 |
| | | 12 × 1.0 | 70 (M) | 5.0 | 25 | 188745 |
| | 20 | 18 × 1.0 | 50 (D) | 5.2 | 16 | 227609 |
| | | 18 × 1.0 | 70 (M) | 5.0 | 25 | 188746 |
| | 25 | 25 × 1.2 | 50 (D) | 5.2 | 9 | 227610 |
| | | 25 × 1.2 | 70 (M) | 5.0 | 16 | 188747 |
| | 40 | 38 × 1.2 | 70 (M) | 5.0 | 6 | 188748 |
| | | 38 × 1.2 | 90 (N) | 5.0 | 16 | 188749 |
| | 50 | 51 × 1.2 | 90 (N) | 5.0 | 10 | 188750 |
| | | 51 × 1.2 | 130 (P) | 5.0 | 25 (20 [3.]) | 188751 |
| | 65 | 63.5 × 1.65 | 90 (N) | 5.0 | 5 | 239462 |
| | | 63.5 × 1.65 | 130 (P) | 5.6 | 16 (15 [3.]) | 239477 |
| **B (CF B)** see control functions [1.] | 15 | 12 × 1.0 | 50 (D) | See diagram [2.] | 25 | 187089 |
| | | 12 × 1.0 | 70 (M) | | 25 | 188759 |
| | 20 | 18 × 1.0 | 50 (D) | | 25 | 187090 |
| | | 18 × 1.0 | 70 (M) | | 25 | 188760 |
| | 25 | 25 × 1.2 | 70 (M) | | 25 | 188761 |
| | 40 | 38 × 1.2 | 70 (M) | | 25 | 188762 |
| | 50 | 51 × 1.2 | 70 (M) | | 16 | 188763 |
| | 65 | 63.5 × 1.65 | 90 (N) | | 14 | 239470 |
| | | 63.5 × 1.65 | 130 (P) | | 16 (15 [3.]) | 239485 |

1.) Further information can be found in chapter "2. Control functions" on page 5.

2.) See diagram in chapter "Pilot pressure diagrams for flow direction below seat (Control function B)" on page 18

3.) 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)

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### Valves with flow direction above seat

| Control function | Nominal diameter (port connection) | Port connection pipe Ø | Actuator size Ø | Pilot pressure min. | Operating pressure max. | Article no. |
|---|---|---|---|---|---|---|
| | DN | [mm] | [mm] | [bar(g)] | [bar(g)] | |
| **DIN EN ISO 1127 / ISO 4200** | | | | | | |
| **A (CF A)** see control functions 1.) | 15 | 21.3 × 1.6 | 50 (D) | See diagram 2.) | 16 | 187066 |
| | 20 | 26.9 × 1.6 | 50 (D) | | 16 | 187067 |
| | 25 | 33.7 × 2 | 50 (D) | | 16 | 187068 |
| | 32 | 42.4 × 2 | 70 (M) | | 16 | 188692 |
| | 40 | 48.3 × 2 | 70 (M) | | 16 | 188693 |
| | 50 | 60.3 × 2.0 | 70 (M) | | 12 | 274663 |
| **DIN 11850 series 2 / DIN EN 10357 series A** | | | | | | |
| **A (CF A)** see control functions 1.) | 15 | 19 × 1.5 | 50 (D) | See diagram 2.) | 16 | 187072 |
| | 20 | 23 × 1.5 | 50 (D) | | 16 | 187073 |
| | 25 | 29 × 1.5 | 50 (D) | | 16 | 187074 |
| | 32 | 35 × 1.5 | 70 (M) | | 16 | 188715 |
| | 40 | 41 × 1.5 | 70 (M) | | 16 | 188716 |
| | 50 | 53 × 1.5 | 70 (M) | | 12 | 188718 |
| **ASME BPE** | | | | | | |
| **A (CF A)** see control functions 1.) | 15 | 12.7 × 1.65 | 50 (D) | See diagram 2.) | 16 | 187078 |
| | 20 | 19.05 × 1.65 | 50 (D) | | 16 | 187079 |
| | 25 | 25.4 × 1.65 | 50 (D) | | 16 | 187080 |
| | 40 | 38.1 × 1.65 | 70 (M) | | 16 | 188736 |
| | 50 | 50.8 × 1.65 | 70 (M) | | 12 | 188738 |
| **SMS 3008** | | | | | | |
| **A (CF A)** see control functions 1.) | 15 | 12 × 1.0 | 50 (D) | See diagram 2.) | 16 | 187085 |
| | 20 | 18 × 1.0 | 50 (D) | | 16 | 187086 |
| | 25 | 25 × 1.2 | 50 (D) | | 16 | 187087 |
| | 40 | 38 × 1.2 | 70 (M) | | 16 | 188755 |
| | 50 | 51 × 1.2 | 70 (M) | | 12 | 188757 |

1.) Further information can be found in chapter "2. Control functions" on page 5.

2.) See diagram in chapter "Pilot pressure diagram for flow direction above seat (control function A)" on page 20

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## 9.6. Ordering chart variant with clamp connection

**Valves with flow direction below seat**

| Control function | Nominal diameter (port connection) | Port connection external clamp Ø | Actuator size Ø | Pilot pressure min. | Operating pressure max. | Article no. |
|---|---|---|---|---|---|---|
| | DN | [mm] | [mm] | [bar(g)] | [bar(g)] | |
| **DIN 32676 series B (pipe: ISO 4200)** | | | | | | |
| **A (CF A)** see control functions [1.)] | 15 | 34.0 | 50 (D) | 5.2 | 25 | 187097 |
| | | 34.0 | 70 (M) | 5.0 | 25 | 188783 |
| | 20 | 50.5 | 50 (D) | 5.2 | 16 | 209437 |
| | | 50.5 | 70 (M) | 5.0 | 25 | 188784 |
| | 25 | 50.0 | 50 (D) | 5.2 | 9 | 227613 |
| | | 50.5 | 70 (M) | 5.0 | 16 | 188785 |
| | 32 | 50.5 | 70 (M) | 5.0 | 8.5 | 188786 |
| | | 50.5 | 90 (N) | 5.0 | 25 | 188787 |
| | 40 | 64.0 | 70 (M) | 5.0 | 6 | 188788 |
| | | 64.0 | 90 (N) | 5.0 | 16 | 188789 |
| | 50 | 77.5 | 90 (N) | 5.0 | 10 | 188790 |
| | | 77.5 | 130 (P) | 5.0 | 25 (20 [3.)]) | 188791 |
| **B (CF B)** see control functions [1.)] | 15 | 34.0 | 50 (D) | See diagram [2.)] | 25 | 187101 |
| | | 34.0 | 70 (M) | | 25 | 188800 |
| | 20 | 50.5 | 50 (D) | | 25 | 187102 |
| | | 50.5 | 70 (M) | | 25 | 188801 |
| | 25 | 50.5 | 70 (M) | | 25 | 188802 |
| | 32 | 50.5 | 70 (M) | | 25 | 188803 |
| | 40 | 64.0 | 70 (M) | | 25 | 188804 |
| | 50 | 77.5 | 70 (M) | | 16 | 188805 |
| **ASME BPE** | | | | | | |
| **A (CF A)** see control functions [1.)] | 15 | 25.0 | 50 (D) | 5.2 | 25 | 187103 |
| | | 25.0 | 70 (M) | 5.0 | 25 | 188806 |
| | 20 | 25.5 | 50 (D) | 5.2 | 16 | 227614 |
| | | 25.5 | 70 (M) | 5.0 | 25 | 188807 |
| | 25 | 50.5 | 50 (D) | 5.2 | 9 | 227615 |
| | | 50.5 | 70 (M) | 5.0 | 16 | 188808 |
| | 40 | 50.5 | 70 (M) | 5.0 | 6 | 188809 |
| | | 50.5 | 90 (N) | 5.0 | 16 | 188810 |
| | 50 | 64.0 | 90 (N) | 5.0 | 10 | 188811 |
| | | 64.0 | 130 (P) | 5.0 | 25 (20 [3.)]) | 188812 |
| **B (CF B)** see control functions [1.)] | 15 | 25.0 | 50 (D) | See diagram [2.)] | 25 | 187107 |
| | | 25.0 | 70 (M) | | 25 | 188820 |
| | 20 | 25.0 | 50 (D) | | 25 | 187108 |
| | | 50.5 | 70 (M) | | 25 | 188821 |
| | 25 | 50.5 | 70 (M) | | 25 | 188822 |
| | 40 | 50.5 | 70 (M) | | 25 | 188823 |
| | 50 | 64.0 | 70 (M) | | 16 | 188824 |

1.) Further information can be found in chapter "2. Control functions" on page 5.

2.) See diagram in chapter "Pilot pressure diagrams for flow direction below seat (Control function B)" on page 18

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| Further variants on request | | | |
|---|---|---|---|
| | **Approval**<br>Food contact, drinking water, oxygen, fuel gases, explosion protection | | **Pressure**<br>Other variants for operating pressures up to 25 bar(g)<br>Vacuum variant down to - 0.9 bar(g) |
| | **Material**<br>Seal: NBR, FKM, EPDM | | **Temperature**<br>High temperature variant up to + 230 °C<br>Hot water variant up to + 200 °C<br>Low temperature variant down to - 40 °C |
| | **Process connection**<br>Clamp connection, welded connection | | |

**Valves with flow direction above seat**

| Control function | Nominal diameter | Port connection external clamp Ø | Actuator size Ø | Pilot pressure min. | Operating pressure | Article no. |
|---|---|---|---|---|---|---|
| | DN | [mm] | [mm] | [bar(g)] | [bar(g)] | |
| **DIN 32676 series B (pipe: ISO 4200)** | | | | | | |
| **A (CF A)** see control functions [1.)] | 15 | 34.0 | 50 (D) | See diagram [2.)] | 16 | 187098 |
| | 20 | 50.5 | 50 (D) | | 16 | 187099 |
| | 25 | 50.5 | 50 (D) | | 16 | 187100 |
| | 32 | 50.5 | 70 (M) | | 16 | 188795 |
| | 40 | 64.0 | 70 (M) | | 16 | 188796 |
| | 50 | 77.5 | 70 (M) | | 12 | 188798 |
| **ASME BPE** | | | | | | |
| **A (CF A)** see control functions [1.)] | 15 | 25.0 | 50 (D) | See diagram [2.)] | 16 | 187104 |
| | 20 | 25.0 | 50 (D) | | 16 | 187105 |
| | 25 | 50.5 | 50 (D) | | 16 | 187106 |
| | 40 | 50.5 | 70 (M) | | 16 | 188816 |
| | 50 | 64.0 | 70 (M) | | 12 | 188818 |

1.) Further information can be found in chapter "2. Control functions" on page 5.

2.) See diagram in chapter "Pilot pressure diagram for flow direction above seat (control function A)" on page 20

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