



## Multifunction bloc solutions

- Flexible and compact design for individual applications
- Minimum dead space
- Easy integration of automation units with ELEMENT

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

### Can be combined with

|                                                                                     |                                                                                                           |   |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|---|
|   | <b>Type SV02</b><br>Diaphragms                                                                            | ▶ |
|  | <b>Type 2036</b><br>Robolux multiway diaphragm valve, pneumatically operated                              | ▶ |
|  | <b>Type 8690</b><br>Pneumatic control unit for decentralised automation of process valves ELEMENT         | ▶ |
|  | <b>Type 8691</b><br>Control head for decentralised automation of ELEMENT process valves                   | ▶ |
|  | <b>Type 8692</b><br>Digital electropneumatic positioner for integrated mounting on process control valves | ▶ |
|  | <b>Type 8098</b><br>FLOWave SAW flowmeter                                                                 | ▶ |

### Type description

These multi-way diaphragm valve blocs enable an almost infinite number of valve and process combinations. Multi-way valve systems achieve an extremely compact, space-saving design and represent an alternative to previous welded combinations, for example. Configurations can also be constructed that cannot be produced as welded combinations.

The valve body is made of solid material and is available in all industry-standard materials and surface qualities. By using multi-way diaphragm valve blocs, the number of weld seams is reduced, the effort and documentation within the validation is minimised and ultimately compliance with the 2D rule or 3D rule is possible. Designs with the smallest dead spaces and the desired optimised draining are possible. All multi-way valve systems can be combined with the proven Bürkert actuator and automation concepts.

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## 1. General technical data

| Product properties                              |                                                                                                                                                                                                                                           |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Material<sup>2)</sup></b>                    |                                                                                                                                                                                                                                           |
| Bloc body (VH) <sup>1)</sup>                    | Stainless steel bloc material 1.4435 according to DIN EN 10088 and 316L according to ASTM A479 / A479M                                                                                                                                    |
| Bloc body (VI) <sup>1)</sup>                    | Stainless steel bloc material 1.4435 according to DIN EN 10088 and 316L according to ASME BPE (Table MM-2.1.1, Ed. 2024)<br>BN2 available on request                                                                                      |
| Additional information for weld-on components   | Standard clamps and DIN 11864 connections according to VI specification<br>Material for special weld-on fittings (elbows, reducers, etc.) on request                                                                                      |
| Diaphragm                                       | EPDM (AD) <sup>1)</sup> , PTFE / EPDM (EA) <sup>1)</sup> , Advanced PTFE / EPDM (EU) <sup>1)</sup> , laminate of GYLON® and EPDM (ER) <sup>1)</sup> , advanced PTFE / EPDM laminated (EK) <sup>1)</sup>                                   |
| <b>Actuator</b>                                 |                                                                                                                                                                                                                                           |
| ELEMENT (Type 2103)                             | Actuator<br>DN 08...65, PPS<br>DN 65...100, stainless steel 1.4308                                                                                                                                                                        |
| CLASSIC (Type 2031)                             | Actuator casing<br>DN 08...65, stainless steel 1.4561 (316Ti)<br>DN 65...100, stainless steel 1.4308                                                                                                                                      |
| Stainless steel/INOX (Type 2063)                | PPS, PA, bonnet in stainless steel 1.4308 / 1.4404                                                                                                                                                                                        |
| Robolux (Type 2036)                             | Stainless steel 1.4404, bonnet in stainless steel 1.4308                                                                                                                                                                                  |
| Manual (Type 2933)                              | Stainless steel 1.4308 (CF8)<br>Actuator (diaphragm base / hand wheel)<br>Stainless steel / PPS, diaphragm size DN 8...50<br>PPS / PPS, diaphragm size DN 15...50                                                                         |
| Manual (Types 2973)                             | Actuator (diaphragm base / hand wheel)<br>Stainless steel / PPS, diaphragm size DN 15...50                                                                                                                                                |
| Manual (Type 3233)                              | Actuator (diaphragm base / hand wheel)<br>PPS / PPS, stainless steel / PPS or Stainless steel / stainless steel, diaphragm size DN 8...50<br>Stainless steel / stainless steel, diaphragm size DN 65...100                                |
| Diaphragm size                                  | 8...100                                                                                                                                                                                                                                   |
| <b>Standard surface quality</b>                 |                                                                                                                                                                                                                                           |
| Bloc body (VH/VI) <sup>1)</sup>                 | Internally electrically polished: Ra ≤ 0.38 µm (NO17) <sup>1)</sup> (ASME BPE SF4 / DIN HE4)<br>(externally Ra ≤ 1.6 µm)<br>Internally mechanically polished: Ra ≤ 0.5 µm (NO14) <sup>1)</sup> (ASME BPE SF1)<br>(externally Ra ≤ 1.6 µm) |
| Automated component                             | Position feedbacks/control heads/positioners/process controllers                                                                                                                                                                          |
| <b>Performance data</b>                         |                                                                                                                                                                                                                                           |
| Maximum pilot pressure (CF A)                   | See <b>"5.1. Medium pressure"</b> on page 14                                                                                                                                                                                              |
| Pilot air port                                  | Push-in connector Ø 6 mm/4 mm or 1/4", thread G 1/8"/G 1/4"                                                                                                                                                                               |
| <b>Medium data</b>                              |                                                                                                                                                                                                                                           |
| Process medium                                  | Neutral gases and liquids, highly purified, sterile, aggressive or abrasive mediums<br>(see <b>resistance chart</b> ►)                                                                                                                    |
| <b>Medium temperature</b>                       |                                                                                                                                                                                                                                           |
| EPDM (AD) <sup>1)</sup>                         | -10...+143 °C (steam sterilisation +150 °C for 60 min)                                                                                                                                                                                    |
| PTFE/EPDM (EA) <sup>1)</sup>                    | -10...+130 °C (steam sterilisation +140 °C for 60 min)                                                                                                                                                                                    |
| Advanced PTFE/EPDM (EU) <sup>1)</sup>           | -5...+143 °C (steam sterilisation +150 °C for 60 min)                                                                                                                                                                                     |
| Laminate of GYLON® and EPDM (ER) <sup>1)</sup>  | -5...+130 °C (steam sterilisation +140 °C for 60 min)                                                                                                                                                                                     |
| <b>Robolux medium temperature</b>               |                                                                                                                                                                                                                                           |
| EPDM (AD) <sup>1)</sup>                         | +5...+130 °C (steam sterilisation +140 °C for 60 min)                                                                                                                                                                                     |
| Advanced PTFE/EPDM laminated (EK) <sup>1)</sup> | +5...+90 °C (not recommended for steam)                                                                                                                                                                                                   |
| Laminate of GYLON® and EPDM (ER) <sup>1)</sup>  | +15...+130 °C (steam sterilisation +140 °C for 60 min)                                                                                                                                                                                    |
| Control medium                                  | Neutral gases, air                                                                                                                                                                                                                        |

## Product connections

### Port connection <sup>2.)</sup>

Nominal diameter <sup>2.)</sup> DN 06...DN 100 (1/8"...4")

### Stainless steel body <sup>2.)</sup>

Welded connection <sup>2.)</sup> DIN EN ISO 1127 / ISO 4200 / DIN 11866 series B  
DIN 11850 - 2 / DIN 11866 series A / DIN EN 10357 series A  
ASME BPE / DIN 11866 series C

Clamp connection <sup>2.)</sup> DIN 32676 series A (DIN pipe)  
DIN 32676 series B (ISO pipe)  
ASME BPE

## Environment and installation

### Ambient temperature

|                                            |                                                                                                                                                                                                                                   |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ELEMENT                                    | - 10...+ 60 °C <sup>4.)</sup> , autoclavable                                                                                                                                                                                      |
| CLASSIC, PPS, actuator size ≤ 80 mm        | + 5...+ 140 °C <sup>4.)</sup>                                                                                                                                                                                                     |
| CLASSIC, PPS, actuator size 100 mm, 125 mm | + 5...+ 90 °C (short-term up to + 140 °C) <sup>4.)</sup>                                                                                                                                                                          |
| CLASSIC, PA, actuator size ≤ 125 mm        | - 10...+ 60 °C <sup>4.)</sup>                                                                                                                                                                                                     |
| CLASSIC, PA, actuator size ≥ 175 mm        | - 10...+ 50 °C <sup>4.)</sup>                                                                                                                                                                                                     |
| Stainless steel/INOX                       | 0...+ 80 °C, autoclavable                                                                                                                                                                                                         |
| Robolux                                    | 0...+ 60 °C                                                                                                                                                                                                                       |
| Manually operated (Type 2933)              | Stainless steel / PPS, PPS / PPS - 10...+ 130 °C (briefly up to + 150 °C), autoclavable                                                                                                                                           |
| Manually operated (Type 2973)              | Stainless steel / PPS, PPS / PPS - 10...+ 130 °C (briefly up to + 150 °C), autoclavable                                                                                                                                           |
| Manually operated (Type 3233)              | PPS / PPS 0...+ 130 °C (briefly...+ 150 °C) <sup>4.)</sup><br>Stainless steel / PPS 0...+ 130 °C (briefly...+ 150 °C) <sup>4.)</sup><br>Stainless steel / stainless steel - 10...+ 140 °C (briefly up to + 150 °C) <sup>4.)</sup> |

1.) This information is part of the product key.

2.) Other variants are available on request.

3.) For plastic enclosures, temperature limitation possible due to enclosure material

4.) For standard variant, variants with higher temperatures possible

## 2. Approvals and conformities

### 2.1. General notes

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

### 2.2. Conformity

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

### 2.3. Standards

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

### 2.4. Explosion protection

| Approval                                                                           | Description                                                                                                                              |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>Optional: Explosion protection (valid for the variable code PX50)</b><br>As a category 2 device suitable for zone 1/21 and zone 2/22. |

### 2.5. Foods and beverages/Hygiene

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

### 2.6. Others

#### Certificates

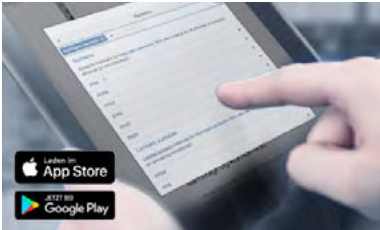
| Certificat                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• Material test certificate according to DIN EN 10204 - 3.1</li> <li>• Surface roughness test according to DIN EN 10204 - 3.1</li> <li>• Crack test according to DIN EN 10204 - 3.1</li> <li>• Test report according to DIN EN 10204 - 2.2</li> <li>• Diaphragm certificate according to DIN EN 10204 - 2.1</li> <li>• Welding procedure certificate</li> </ul> |

TA Luft

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

3. Materials

3.1. Bürkert resistApp



Bürkert resistApp – Chemical resistance chart

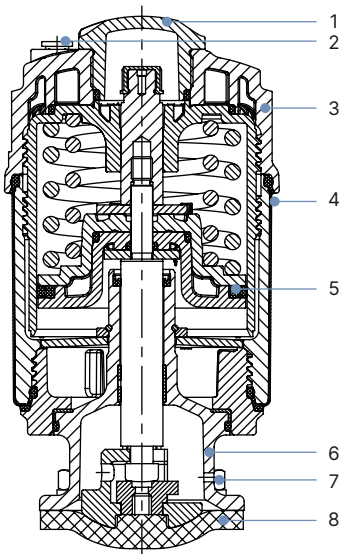
You want to ensure the reliability and durability of the materials in your individual application case? Verify your combination of media and materials on our website or in our resistApp.

[Start chemical resistance check](#)

3.2. Material specifications

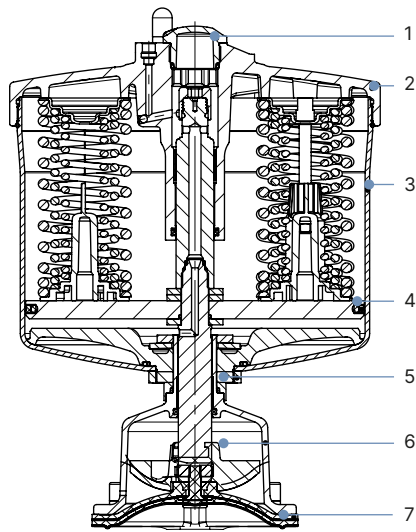
Variant with ELEMENT actuator (Type 2103)

Diaphragm size: DN 08...DN 65



| No. | Element         | Material                                                                                   |
|-----|-----------------|--------------------------------------------------------------------------------------------|
| 1   | Transparent cap | Polysulfone PSU                                                                            |
| 2   | Pilot air ports | Push-in connector PP (standard)<br>Thread 1/8" stainless steel 1.4305 (on request)         |
| 3   | Actuator casing | PPS                                                                                        |
| 4   | Cover           | Stainless steel 1.4561 (316Ti)                                                             |
| 5   | Piston seal     | FKM                                                                                        |
| 6   | Socket          | Stainless steel 1.4308                                                                     |
| 7   | Screws          | Stainless steel                                                                            |
| 8   | Diaphragm       | EPDM (AD), PTFE/EPDM (EA),<br>Advanced PTFE/EPDM (EU),<br>laminate of GYLON® and EPDM (ER) |

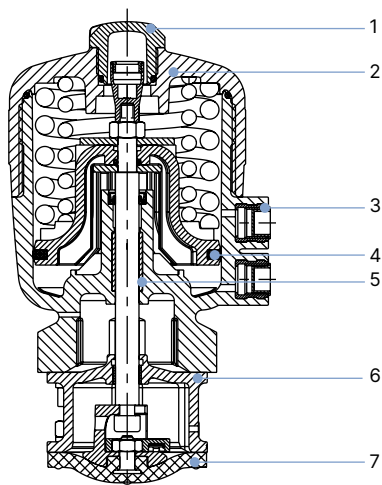
Diaphragm size: DN 65...DN 100



| No. | Element          | Material                                                                                   |
|-----|------------------|--------------------------------------------------------------------------------------------|
| 1   | Transparent cap  | Polysulfon PSU                                                                             |
| 2   | Actuator casing  | Stainless steel 1.4308                                                                     |
| 3   | Liner            | Stainless steel 1.4404                                                                     |
| 4   | Piston seal      | FKM                                                                                        |
| 5   | Nut              | Stainless steel 1.4301                                                                     |
| 6   | Diaphragm socket | Stainless steel CF3M                                                                       |
| 7   | Diaphragm        | EPDM (AD), PTFE/EPDM (EA),<br>Advanced PTFE/EPDM (EU),<br>laminate of GYLON® and EPDM (ER) |

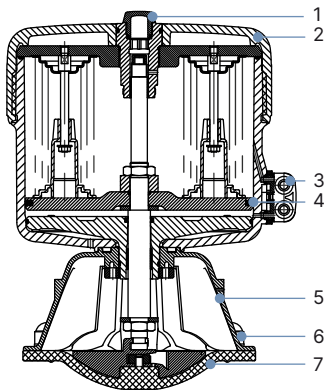
Variant with CLASSIC actuator (Type 2031)

Actuator size DN 08...DN 65



| No. | Element         | Material                                                                                   |
|-----|-----------------|--------------------------------------------------------------------------------------------|
| 1   | Transparent cap | Polysulfone PSU                                                                            |
| 2   | Cover           | Polyphenylene sulphide PPS (standard)<br>Polyamide PA (on request)                         |
| 3   | Pilot air ports | Stainless steel 1.4305                                                                     |
| 4   | Piston seal     | FKM                                                                                        |
| 5   | Socket          | Sinter metal                                                                               |
| 6   | Interface       | Stainless steel 1.4404                                                                     |
| 7   | Diaphragm       | EPDM (AD), PTFE/EPDM (EA),<br>Advanced PTFE/EPDM (EU),<br>laminate of GYLON® and EPDM (ER) |

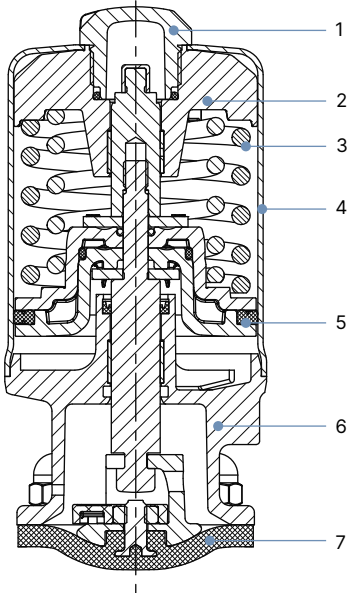
Diaphragm size: DN 65...DN 100



| No. | Element         | Material                                                                                            |
|-----|-----------------|-----------------------------------------------------------------------------------------------------|
| 1   | Transparent cap | Polysulfone (actuator size 40...125)<br>Polycarbonate (actuator size 175...225)                     |
| 2   | Actuator        | Polyphenylene sulphide PPS (actuator size 40...125)<br>Polyamide PA (actuator size 175...225)       |
| 3   | Pilot air ports | Stainless steel 1.4305                                                                              |
| 4   | Piston seal     | FKM (actuator size 40...125)<br>NBR (actuator size 175...225)                                       |
| 5   | Socket          | Stainless steel 1.4404 (actuator size 40...125)<br>Stainless steel 1.4308 (actuator size 175...225) |
| 6   | Screws          | Stainless steel                                                                                     |
| 7   | Diaphragm       | EPDM (AD), PTFE/EPDM (EA),<br>Advanced PTFE/EPDM (EU),<br>laminate of GYLON® and EPDM (ER)          |

Variant with INOX actuator (Type 2063)

Diaphragm size: DN 08...DN 50

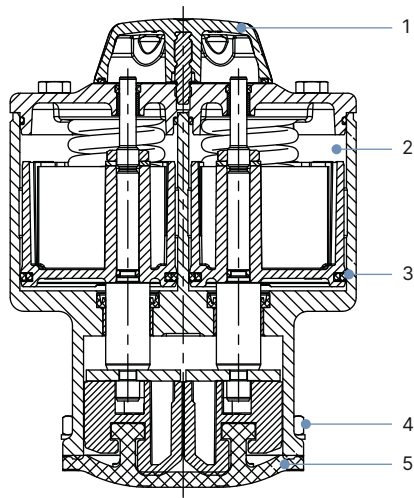


| No. | Element                          | Material                                                                                   |
|-----|----------------------------------|--------------------------------------------------------------------------------------------|
| 1   | Transparent cap                  | Polysulfone PSU                                                                            |
| 2   | Spring support                   | Stainless steel 1.4308                                                                     |
| 3   | Spring                           | EN10270 - 2 FDSiCr                                                                         |
| 4   | Actuator casing                  | Stainless steel 1.4404 (316L)                                                              |
| 5   | Piston seal                      | FKM                                                                                        |
| 6   | Actuator base (diaphragm socket) | Stainless steel 1.4308                                                                     |
| 7   | Diaphragm                        | EPDM (AD), PTFE/EPDM (EA),<br>Advanced PTFE/EPDM (EU),<br>laminate of GYLON® and EPDM (ER) |



Variant with Robolux actuator (Type 2036)

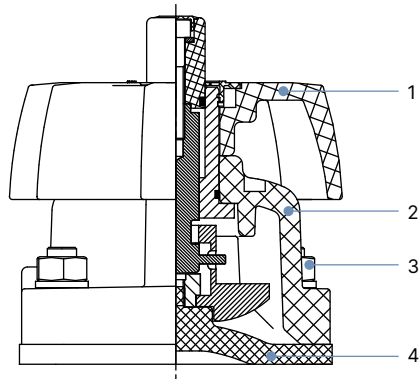
Diaphragm size: DN 08...DN 50



| No. | Element         | Material                                                                      |
|-----|-----------------|-------------------------------------------------------------------------------|
| 1   | Transparent cap | Polyamide 12                                                                  |
| 2   | Actuator        | Stainless steel 1.4308/PPS                                                    |
| 3   | Piston seal     | FKM                                                                           |
| 4   | Screws          | Stainless steel                                                               |
| 5   | Diaphragm       | EPDM (AD),advanced PTFE/EPDM laminated (EK), laminate of GYLON® and EPDM (ER) |

Variant with manual actuator (Type 3233)

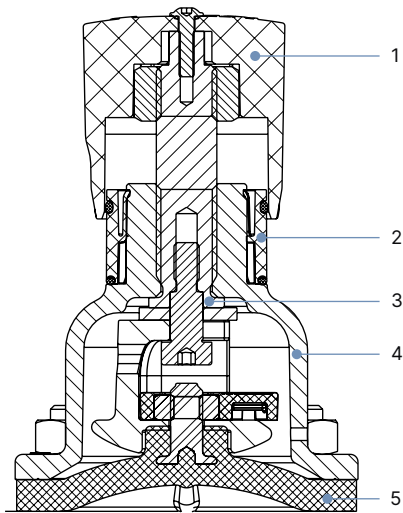
Diaphragm size DN 08...DN 100



| No. | Element         | Material                                                                                                                   |
|-----|-----------------|----------------------------------------------------------------------------------------------------------------------------|
| 1   | Transparent cap | Diaphragm size 15...50: Polyoxymethylene<br>Diaphragm size 65...100: stainless steel                                       |
| 2   | Handwheel       | Diaphragm size 8...50: Polyphenylene sulphide PPS (stainless steel on request)<br>Diaphragm size 65...100: stainless steel |
| 3   | Socket          | Diaphragm size 8...50: Polyphenylene sulphide PPS (stainless steel on request)<br>Diaphragm size 65...100: stainless steel |
| 4   | Diaphragm       | EPDM (AD), PTFE/EPDM (EA),<br>Advanced PTFE/EPDM (EU),<br>laminate of GYLON® and EPDM (ER)                                 |

Variant with manually operated actuator (Type 2933 – Basic)

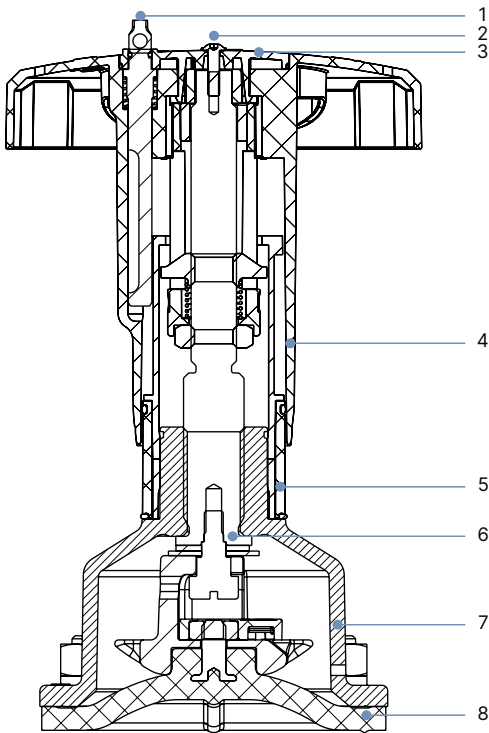
Diaphragm size DN 08...DN 50



| No. | Element                   | Material                                                                                   |
|-----|---------------------------|--------------------------------------------------------------------------------------------|
| 1   | Handwheel                 | Polyphenylene sulphide (PPS)                                                               |
| 2   | Visual position indicator | Polyamide (PA)                                                                             |
| 3   | Valve spindle             | Stainless steel 1.4305                                                                     |
| 4   | Diaphragm bonnet          | Stainless steel 1.4308,<br>Polyphenylene sulphide (PPS)                                    |
| 5   | Diaphragm                 | EPDM (AD), PTFE/EPDM (EA),<br>Advanced PTFE/EPDM (EU),<br>laminate of GYLON® and EPDM (ER) |

Variant with manually operated actuator (Type 2973 – Full Function)

Diaphragm size DN 08...DN 50



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

### 3.3. Example of available membrane materials

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



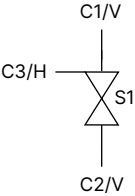
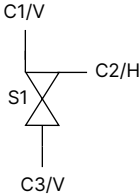
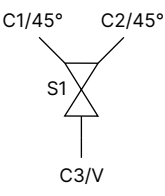
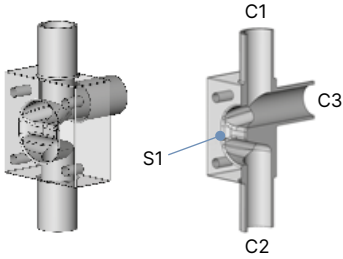
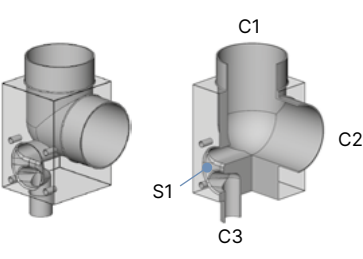
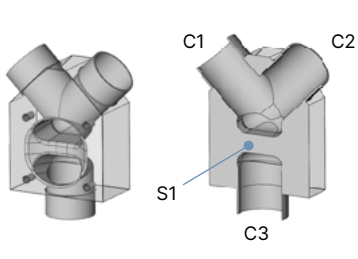
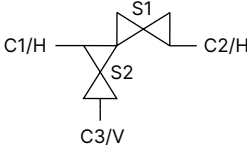
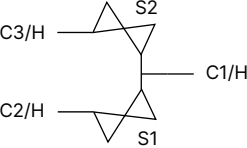
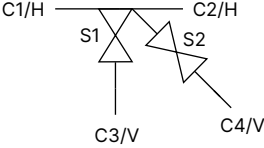
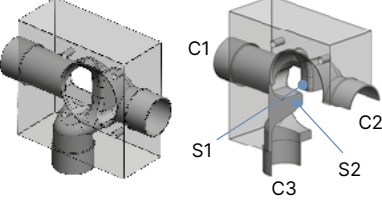
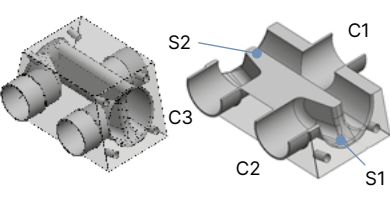
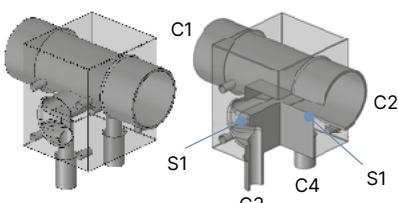
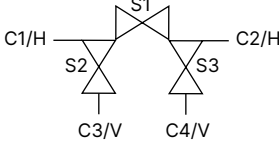
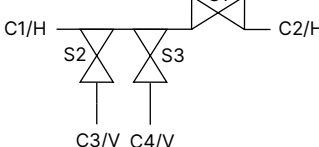
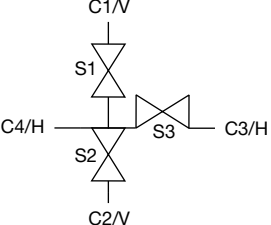
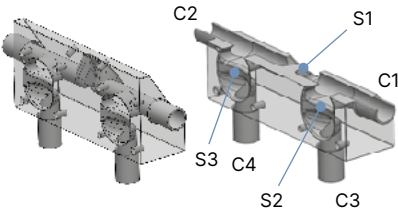
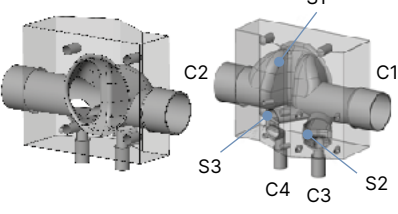
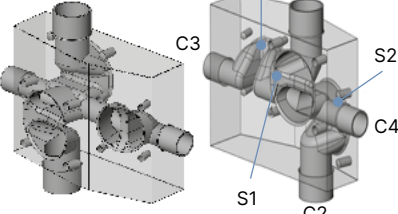
- EPDM (AD)
- PTFE/EPDM (EA)
- Advanced PTFE/EPDM (EU)
- Laminate of GYLON® and EPDM (ER)

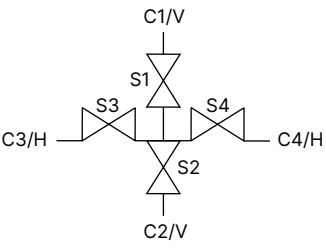
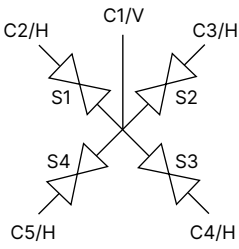
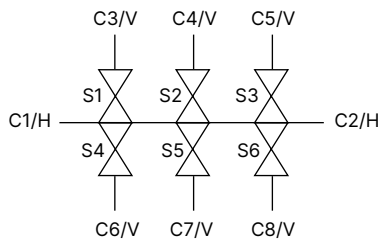
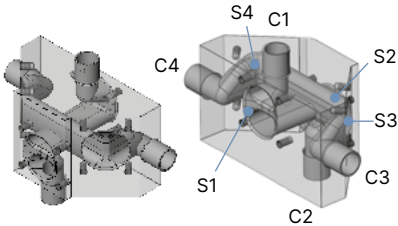
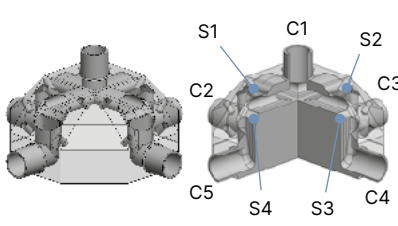
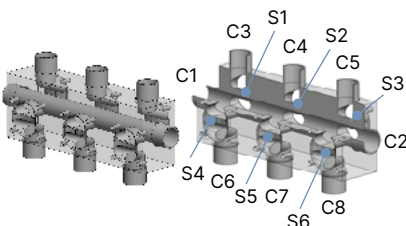
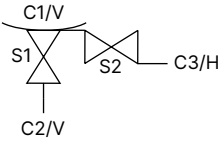
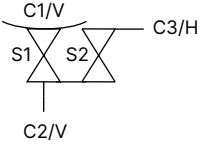
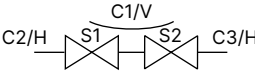
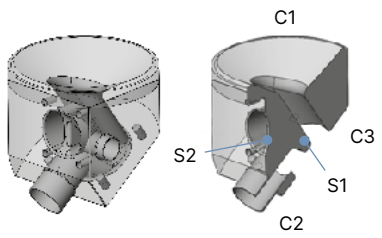
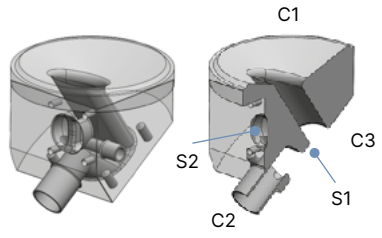
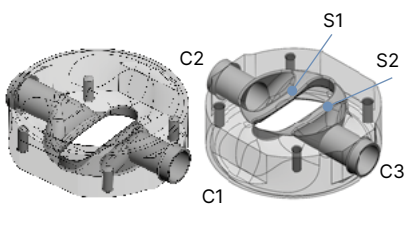
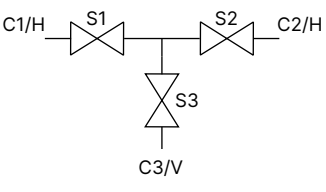
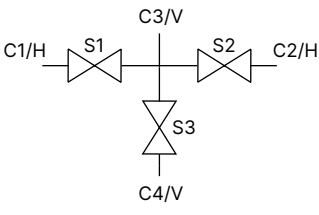
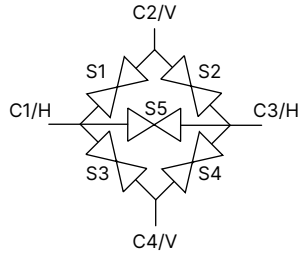
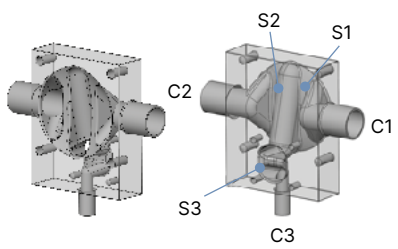
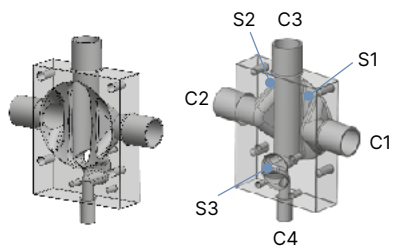
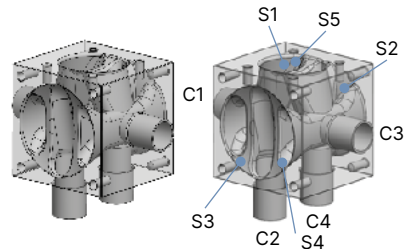
Further information can be found in our flyer "Diaphragm competence for hygienic applications" on our [website](#) ►.

## 4. Product connections

### 4.1. Configuration

The following examples give an insight into our configuration programme. It is possible to implement customised bloc solutions. Further configurations can be found in the **bloc brochure Type 2034** ►.

| GMPA                                                                                | 0113                                                                                 | 0116                                                                                  |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|    |     |    |
|    |    |    |
| SAP1                                                                                | 0201                                                                                 | 0203                                                                                  |
|  |   |  |
|  |  |  |
| 0301                                                                                | 0336                                                                                 | 0340                                                                                  |
|  |   |  |
|  |  |  |

|                                                                                     |                                                                                      |                                                                                       |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>0423</b>                                                                         | <b>0416</b>                                                                          | <b>0602</b>                                                                           |
|    |     |    |
|    |    |    |
| <b>0229</b>                                                                         | <b>0206</b>                                                                          | <b>MW56</b>                                                                           |
|   |    |   |
|  |  |  |
| <b>K301</b>                                                                         | <b>K302</b>                                                                          | <b>K501</b>                                                                           |
|  |   |  |
|  |  |  |

## 5. Performance specifications

### 5.1. Medium pressure

#### Specification for control function A

##### Note:

- For low operating pressures, optional variants with reduced spring force (EC04) are recommended.
- Pressure data [bar]: Overpressure to atmospheric pressure. The valve closes dynamically against maximum operating pressure.
- Information for control function B and I is available on request.

#### Pneumatic actuator

| Port connection (DN)    |        | Diaphragm size | Actuator size Ø | Pilot pressure | Maximum operating pressure for seal material |                                                               |
|-------------------------|--------|----------------|-----------------|----------------|----------------------------------------------|---------------------------------------------------------------|
| [mm]                    | [inch] |                |                 |                | EPDM                                         | PTFE/EPDM and advanced PTFE/EPDM, laminate of GYLON® and EPDM |
| [mm]                    | [inch] |                | [mm]            | [bar]          | [bar]                                        | [bar]                                                         |
| <b>ELEMENT actuator</b> |        |                |                 |                |                                              |                                                               |
| 8                       | ¼"     | 8              | 50 (D)          | 5.0...10       | 10                                           | 10                                                            |
| 15                      | ½"     | 15             | 50 (D)          | 5.0...10       | 7.5                                          | –                                                             |
|                         |        |                | 70 (M)          | 5.0...10       | 10                                           | 10                                                            |
| 20                      | ¾"     | 20             | 70 (M)          | 5.0...10       | 10                                           | 10                                                            |
| 25                      | 1"     | 25             | 70 (M)          | 5.0...10       | 6.5                                          | 4.5                                                           |
|                         |        |                | 90 (N)          | 5.0...10       | 10                                           | 8                                                             |
| 32                      | 1¼"    | 32             | 90 (N)          | 5.0...10       | 8                                            | 6                                                             |
| 40                      | 1½"    | 40             | 90 (N)          | 5.5...10       | 5.5                                          | 5 <sup>1.)</sup>                                              |
|                         |        |                | 130 (P)         | 5.0...7        | 10                                           | 10                                                            |
| 50                      | 2"     | 50             | 130 (P)         | 5.0...7        | 8                                            | 7                                                             |
| 65                      | 2½"    | 65             | 130 (P)         | 5.0...7        | 5.5                                          | 3.5                                                           |
|                         |        |                | 225(L)          | 5.0...7        | 8                                            | 8 <sup>5.)</sup>                                              |
| 80                      | 3"     | 80             | 225(L)          | 5.0...7        | 10                                           | 8                                                             |
| 100                     | 4"     | 100            | 225(L)          | 5.0...7        | 8                                            | 5.5                                                           |
| <b>CLASSIC actuator</b> |        |                |                 |                |                                              |                                                               |
| 8                       | ¼"     | 8              | 40 (C)          | 5.0...7        | 10                                           | 10                                                            |
| 15                      | ½"     | 15             | 50 (D)          | 5.0...7        | 8.5                                          | –                                                             |
|                         |        |                | 63 (E)          | 5.0...7        | 10                                           | 10                                                            |
| 20                      | ¾"     | 20             | 63 (E)          | 5.5...7        | 10                                           | 5                                                             |
|                         |        |                | 80 (F)          | 5.0...7        | 10                                           | 10                                                            |
| 25                      | 1"     | 25             | 80 (F)          | 5.5...7        | 10                                           | 7.5                                                           |
| 40                      | 1¼"    | 40             | 100 (G)         | 5.5...7        | 6.5                                          | 6 <sup>2.)</sup>                                              |
|                         |        |                | 125 (H)         | 5.5...7        | 10                                           | 10                                                            |
| 50                      | 2"     | 50             | 125 (H)         | 5.5...7        | 8                                            | 7                                                             |
| 65                      | 2½"    | 65             | 175 (K)         | 5.0...6        | 8                                            | 5                                                             |
| 80                      | 3"     | 80             | 175 (K)         | 5.0...6        | 5                                            | 3 <sup>4.)</sup>                                              |
|                         |        |                | 225 (L)         | 5.0...6        | 10                                           | 7 <sup>3.)</sup>                                              |
| 100                     | 4"     | 100            | 225 (L)         | 5.0...6        | 8                                            | 4                                                             |

| Stainless steel/INOX actuator |     |    |         |            |     |                  |
|-------------------------------|-----|----|---------|------------|-----|------------------|
| 8                             | ¼"  | 8  | 32 (B)  | 5.5...10.5 | 10  | 6                |
| 15                            | ½"  | 15 | 50 (D)  | 5.0...10.5 | 8.5 | –                |
|                               |     |    | 70 (M)  | 5.0...10.5 | 10  | 10               |
| 20                            | ¾"  | 20 | 70 (M)  | 5.0...10.5 | 10  | 10               |
| 25                            | 1"  | 25 | 70 (M)  | 5.0...10.5 | 6.5 | 4.5              |
|                               |     |    | 90 (N)  | 5.0...10.5 | 10  | 8                |
| 32                            | 1¼" | 32 | 90 (N)  | 5.0...10.5 | 8   | 6                |
| 40                            | 1½" | 40 | 90 (N)  | 5.5...10.5 | 5.5 | 5 <sup>1.)</sup> |
|                               |     |    | 130 (P) | 5.0...7.5  | 10  | 10               |
| 50                            | 2"  | 50 | 130 (P) | 5.0...7.5  | 8   | 7                |

1.) The variant with laminate of GYLON® and EPDM (ER) is not available.

2.) The maximum operating pressure of GYLON® and EPDM (ER) is 4 bar.

3.) The maximum operating pressure of GYLON® and EPDM (ER) is 8.5 bar.

4.) The tightness value only applies of GYLON® and EPDM (ER diaphragm), otherwise 0 bar for PTFE/EPDM and advanced PTFE/EPDM (EA and EU diaphragms).

5.) The maximum operating pressure for laminate of GYLON® and EPDM is 6.5 bar.

#### Robolux actuator

| Actuator size Ø | Actuator variant           | Pilot pressure | Maximum operating pressure for seal material |                         |                             |
|-----------------|----------------------------|----------------|----------------------------------------------|-------------------------|-----------------------------|
|                 |                            |                | EPDM                                         | Advanced PTFE laminated | Laminate of GYLON® and EPDM |
| [mm]            |                            | [bar]          | [bar]                                        | [bar]                   | [bar]                       |
| RV50            | D11                        | 6...10         | 7.5                                          | 7.5                     | 5.5                         |
|                 | D55 (reduced spring force) | 4...10         | 5.0                                          | 3.5                     | o. r.                       |
| RV70            | D11, D1x, Dx1              | 6...10         | 8.0                                          | 8.0                     | 5.5                         |
|                 | D55 (reduced spring force) | 4...10         | 5.5                                          | 6.0                     | 4.5                         |
| RV110           | D11, D1x, Dx1              | 6...7          | 7.0                                          | 7.5                     | 6.0                         |
|                 | D55 (reduced spring force) | 4...7          | 5.0                                          | 5.0                     | 4.0                         |

o. r. = on request

#### Manual actuator

| Diaphragm size | Actuator material | Maximum operating pressure for seal material                     |
|----------------|-------------------|------------------------------------------------------------------|
|                |                   | EPDM, PTFE/EPDM, advanced PTFE/EPDM, laminate of GYLON® and EPDM |
| DN             |                   | [bar]                                                            |
| 8...80         | VA/VA             | 10                                                               |
| 100            | VA/VA             | 6                                                                |
| 8...50         | VA/PPS            | 10                                                               |
| 8...40         | PPS/PPS           | 10                                                               |
| 50             | PPS/PPS           | 7                                                                |

## 6. Ordering information

### 6.1. Bürkert eShop



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

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

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### 6.2. Bürkert product filter



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

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

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### 6.3. 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](#)