



## 2/2-way Diaphragm Valve, stainless steel body, pneumatically operated, port connection DN 8-50

- Cold-formed pipe valve body, several variants available
- Flow-optimised
- Zero dead volume
- Variety of applications up to +130°C

Type 2031 GP can be combined with...



**Type 8691**

Control head



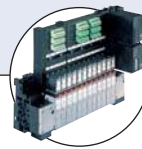
**Type 8690**

Pneum. control unit  
with feedback



**Type 1062**

Electrical position  
feedback



**Type 8640/8644**

Valve block



**Type 6012/6014 P**

Pilot valve



**Type 3233**

Manually-operated  
valve

Pilot controlled diaphragm valve with pneumatically operated piston actuator and valve body from cold-formed stainless steel pipe. Actuator from PA or PPS.

| Technical data  |  |
|---|--|
| <b>Port Connection</b>  | DN 8-50  |
| <b>Body material</b>  | Stainless steel 1.4404   |
| <b>Actuator materials</b>   | PA polyamide, PPS  |
| <b>Pilot air ports</b>  | Stainless steel 1.4305   |
| <b>Seal materials</b>   | EPDM, PTFE/EPDM (advanced PTFE/EPDM, FKM on request)   |
| <b>Medium</b>   | Neutral gases and liquids, high-purity, sterile, aggressive or abrasive fluids               |
| <b>Viscosity</b>  | Up to viscous  |
| <b>Surface finish</b><br>Glass beaded (internal/external)   | (Average surface finish)<br>Ra ≤ 1.6 µm  |
| <b>Medium temperature</b><br>EPDM, PTFE/EPDM, advanced PTFE/EPDM <sup>1)</sup> (on request)<br>FKM on request                           | -10 to +130°C (briefly up to +150°C for steam sterilisation)<br>-10 to +130°C                |
| <b>Ambient temperature</b><br>PA actuator<br>PPS actuator   | -10 to +60°C<br>+5 to +140°C<br>(actuator size ≥ 100 mm +5 to +90°C)<br>briefly up to +140°C |
| <b>Control medium</b>   | Neutral gases; air   |
| <b>Port connections</b><br><b>Weld end</b> acc. to<br><b>Flange</b> acc. to<br><b>Threaded ports</b><br><b>On request clamp</b> acc. to | EN ISO 1127/ISO 4200, DIN 11850 S2<br>DIN EN 1092-1<br>G<br>ISO 2852/SMS 3017                |
| <b>Installation</b>   | As required, preferably with actuator in upright position                                    |

1) Advanced PTFE/EPDM is recommended for sterilization cycle

### Content

| Valve specifications   | System spec. On/Off Classic  | Request for quotation             |
|--|--|-----------------------------------|
|  <b>Type 2031 GP</b><br>Technical data & ordering info. p. 1-10 |  <b>Type 8801/8803-DB</b><br>Ordering info. & technical data p. 11-14 | <b>Type 8801/8803-DB</b><br>p. 15 |

## Technical data, continued

| Port Connection<br><br>DN<br>[mm]  | Orifice (Dia-phragm-size)<br>[mm] | Kv value water<br>[m <sup>3</sup> /h] | Actuator size Ø<br>[mm] | Pilot pressure [bar] |     |    | Max. operating pressure for seal material [bar] |           | Weight [kg]                                   |                           |
|--|-----------------------------------|---------------------------------------|-------------------------|----------------------|-----|----|---|-----------|---|---------------------------|
|  |                                   |                                       |                         | min.                 | PPS | PA | max. with actuator                              | EPDM, FKM | PTFE/EPDM, advanced PTFE/EPDM                 | Flange acc. DIN EN 1092-1 |
| <b>Flange acc. DIN EN 1092-1, weld end acc. EN ISO 1127/ISO 4200 and threaded port</b> |                                   |                                       |                         |                      |     |    |   |           |   |                           |
| 8  | 8                                 | 1.0                                   | 40                      | 5.0                  | 7   | 10 | 10  | 10        | –   | 0.5                       |
| 15   | 15                                | 6.5                                   | 50                      | 5.0                  | 7   | 10 | 8.5   | 5         | 2.1   | 0.7                       |
|  |                                   | 7.0                                   | 63                      | 5.0                  | 7   | 10 | 10  | 10        | 2.3   | 0.9                       |
| 20   | 20                                | 12.0                                  | 63                      | 5.5                  | 7   | 10 | 10  | 5         | 3.0   | 1.2                       |
|  |                                   | 13.0                                  | 80                      | 5.0                  | 7   | 10 | 10  | 10        | 3.5   | 1.8                       |
| 25   | 25                                | 18.0                                  | 63                      | 5.0                  | 7   | 10 | 3   | –         | 3.5   | 1.4                       |
|  |                                   | 21.0                                  | 80                      | 5.5                  | 7   | 10 | 10  | 7.5       | 4.3   | 2.2                       |
| 32   | 32                                | 33.0                                  | 100                     | 5.5                  | 7   | 10 | 10  | 8         | 6.8   | 3.7                       |
|  |                                   |                                       | 100 <sup>1)</sup>       | 3.0                  | 7   | 10 | 3.5   | –         | 6.8   | 3.7                       |
| 40   | 40                                | 45.0                                  | 100                     | 5.5                  | 7   | 10 | 6.5   | 6         | 7.4   | 4.0                       |
|  |                                   |                                       | 100 <sup>1)</sup>       | 2.5                  | 7   | 10 | 1.5   | –         | 7.4   | 4.0                       |
|  |                                   | 46.0                                  | 125                     | 5.5                  | 7   | 7  | 10  | 10        | 9.9   | 6.5                       |
| 50   | 50                                | 56.0                                  | 100                     | 5.5                  | 7   | 10 | 4.5   | 2.5       | 9.2   | 4.5                       |
|  |                                   | 70.0                                  | 125                     | 5.5                  | 7   | 7  | 8.0   | 7         | 11.6  | 7.0                       |
| <b>Weld end acc. DIN 11850 series 2</b>  |                                   |                                       |                         |                      |     |    |   |           | <b>Weight [kg] weld end acc. DIN 11850 S2</b> |                           |
| 10   | 8                                 | 1.0                                   | 40                      | 5.0                  | 7   | 10 | 10  | 10        | 0.5   |                           |
| 15   | 15                                | 4.0                                   | 50                      | 5.0                  | 7   | 10 | 9   | 9         | 0.7   |                           |
|  |                                   | 4.5                                   | 63                      | 5.0                  | 7   | 10 | 10  | 10        | 0.9   |                           |
| 20   | 15                                | 4.0                                   | 50                      | 5.0                  | 7   | 10 | 9   | 9         | 1.2   |                           |
|  |                                   | 4.5                                   | 63                      | 5.0                  | 7   | 10 | 10  | 10        | 1.8   |                           |
| 25   | 20                                | 12.5                                  | 63                      | 5.0                  | 7   | 10 | 10  | 8         | 1.4   |                           |
|  |                                   | 13.5                                  | 80                      | 5.5                  | 7   | 10 | 10  | 10        | 2.2   |                           |
| 32   | 25                                | 17.0                                  | 63                      | 5.0                  | 7   | 10 | 3   | –         | 3.7   |                           |
|  |                                   | 18.0                                  | 80                      | 5.5                  | 7   | 10 | 10  | 8         | 3.7   |                           |
| 40   | 32                                | 24.5                                  | 100                     | 5.5                  | 7   | 10 | 10  | 8         | 4.0   |                           |
| 50   | 40                                | 35.0                                  | 100                     | 5.5                  | 7   | 10 | 8   | 8         | 4.5   |                           |
|  |                                   | 37.0                                  | 125                     | 5.5                  | 7   | 7  | 10  | 10        | 7.0   |                           |

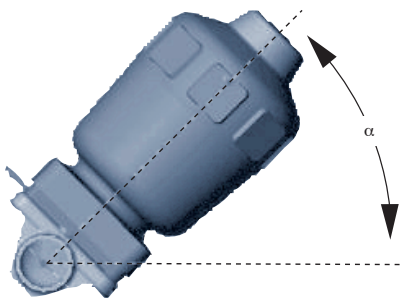
1) With reduced spring force; preferred at lower media pressures

**Remark:** For low operating pressures we recommend reduced spring versions

**Flow rate:** Kv-value water (m<sup>3</sup>/h): Measured at +20°C, 1 bar pressure at valve inlet and free outlet.

**Pressure values (bar):** Gauge pressures with respect to the prevailing atmospheric pressure.

## Recommendation for draining operation

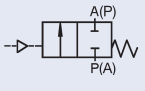


$\alpha = 15$  up to  $35^\circ$  plus  $3^\circ$  to  $5^\circ$  inclination to the pipe axis.  
Installation as required, preferably with actuator in upright position.  
Tilted  $15$  to  $35^\circ$  to the horizontal and inclined  $1$  to  $5^\circ$  to the flow direction for draining operation.

## Ordering chart for valves (other versions on request)

## Body with flange connection acc. DIN EN 1092-1

Surface glass-beaded internal/external, average roughness 1.6 µm

| Control function  | Port Connection [mm] DN        | Orifice (Diaphragm size) [mm] | (Amount of holes) | Kv value water [m³/h]               | Actuator size Ø [mm] | Min. pilot pressure [bar] | Max. operating pressure [bar] | Item no. PPS actuator | Item no. PA actuator |         |         |         |         |
|---|--------------------------------|-------------------------------|-------------------|-------------------------------------|----------------------|---------------------------|-------------------------------|-----------------------|----------------------|---------|---------|---------|---------|
| <b>A</b><br><br>2/2-way, NC by spring return | <b>Diaphragm material EPDM</b> |                               |                   |                                     |                      |                           |                               |                       |                      |         |         |         |         |
|   | 15                             | 15                            | flange            | 6.5                                 | 50                   | 5.0                       | 8.5                           | 137 101               | 137 100              |         |         |         |         |
|   |                                |                               |                   | 7                                   | 63                   | 5.0                       | 10                            | 137 103               | 137 102              |         |         |         |         |
|   |                                |                               |                   | 20                                  | 20                   | 12                        | 63                            | 5.5                   | 10                   | 137 107 | 137 106 |         |         |
|   |                                |                               |                   |                                     |                      | 13                        | 80                            | 5.0                   | 10                   | 137 109 | 137 108 |         |         |
|   |                                |                               |                   | 25                                  | 25                   | 18                        | 63                            | 5.0                   | 3.0                  | 137 113 | 137 112 |         |         |
|   |                                |                               |                   |                                     |                      | 21                        | 80                            | 5.5                   | 10                   | 137 115 | 137 114 |         |         |
|   |                                |                               |                   |                                     |                      | 32                        | 32                            | 33                    | 100                  | 5.5     | 10      | 137 119 | 137 118 |
|   |                                |                               |                   |                                     |                      |                           |                               | 33                    | 100 <sup>1)</sup>    | 3.0     | 3.5     | 137 121 | 137 120 |
|   |                                |                               |                   | 40                                  | 40                   | 45                        | 100                           | 5.5                   | 6.5                  | 137 125 | 137 124 |         |         |
|   |                                |                               |                   |                                     |                      | 45                        | 100 <sup>1)</sup>             | 2.5                   | 1.5                  | 137 129 | 137 128 |         |         |
|   |                                |                               |                   |                                     |                      | 46                        | 125                           | 5.5                   | 10                   | 137 127 | 137 126 |         |         |
|   |                                |                               |                   |                                     |                      | 50                        | 50                            | 56                    | 100                  | 5.5     | 4.5     | 137 133 | 137 132 |
|   |                                |                               |                   | 70                                  | 125                  |                           |                               | 5.5                   | 8                    | 137 135 | 137 134 |         |         |
|   |                                |                               |                   | <b>Diaphragm material PTFE/EPDM</b> |                      |                           |                               |                       |                      |         |         |         |         |
|   |                                |                               | flange            | 6.5                                 | 50                   | 5.0                       | 5                             | 143 077               | 143 076              |         |         |         |         |
|   |                                |                               |                   | 7                                   | 63                   | 5.0                       | 10                            | 137 105               | 137 104              |         |         |         |         |
|   |                                |                               |                   | 20                                  | 20                   | 12                        | 63                            | 5.5                   | 5                    | 143 085 | 143 084 |         |         |
|   |                                |                               |                   |                                     |                      | 13                        | 80                            | 5.0                   | 10                   | 137 111 | 137 110 |         |         |
|   |                                |                               |                   | 25                                  | 25                   | 21                        | 80                            | 5.5                   | 7.5                  | 137 117 | 137 116 |         |         |
|   |                                |                               |                   |                                     |                      | 32                        | 32                            | 33                    | 100                  | 5.5     | 8       | 137 123 | 137 122 |
|   |                                |                               |                   | 40                                  | 40                   |                           |                               | 45                    | 100                  | 5.5     | 6       | 143 091 | 143 090 |
|   |                                |                               |                   |                                     |                      | 46                        | 125                           | 5.5                   | 10                   | 137 131 | 137 130 |         |         |
|   |                                |                               |                   | 50                                  | 50                   | 56                        | 100                           | 5.5                   | 2.5                  | 143 095 | 143 094 |         |         |
| 70  |                                |                               |                   |                                     |                      | 125                       | 5.5                           | 7                     | 137 137              | 137 136 |         |         |         |

1) With reduced spring force; preferred at lower media pressures

 Further versions on request
**Materials**

Seal: Advanced PTFE/EPDM, FKM

**Control function**

B normally open, I double-acting actuator

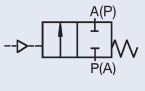
**Port connection**

Clamp acc. to ISO 2852/SMS 3017

## Ordering chart for valves (other versions on request), continued

## Body with weld end acc. to EN ISO 1127/ISO 4200

Surface glass-beaded internal/external, average roughness 1.6 µm

| Control function  | Port Connection [mm] DN             | Orifice (Diaphragm size) [mm] | Outer size Ø [mm] | Kv value water [m³/h] | Actuator size Ø [mm] | Min. pilot pressure [bar] | Max. operating pressure [bar] | Item no. PPS actuator | Item no. PA actuator |
|---|-------------------------------------|-------------------------------|-------------------|-----------------------|----------------------|---------------------------|-------------------------------|-----------------------|----------------------|
| <b>A</b><br><br>2/2-way, NC by spring return | <b>Diaphragm material EPDM</b>      |                               |                   |                       |                      |                           |                               |                       |                      |
|   | 8                                   | 8                             | 13.5              | 1.0                   | 40                   | 5.0                       | 10                            | 135 442               | 137 094              |
|   | 15                                  | 15                            | 21.3              | 6.5                   | 50                   | 5.0                       | 8.5                           | 135 459               | 141 571              |
|   |                                     |                               |                   | 7                     | 63                   | 5.0                       | 10                            | 134 305               | 141 572              |
|   | 20                                  | 20                            | 26.9              | 12                    | 63                   | 5.5                       | 10                            | 135 481               | 141 580              |
|   |                                     |                               |                   | 13                    | 80                   | 5.0                       | 10                            | 134 306               | 141 581              |
|   | 25                                  | 25                            | 33.7              | 18                    | 63                   | 5.0                       | 3.0                           | 135 503               | 141 586              |
|   |                                     |                               |                   | 21                    | 80                   | 5.5                       | 10                            | 134 307               | 141 587              |
|   | 32                                  | 32                            | 42.4              | 33                    | 100                  | 5.5                       | 10                            | 134 308               | 141 592              |
|   |                                     |                               |                   | 33                    | 100 <sup>1)</sup>    | 3.0                       | 3.5                           | 135 533               | 141 593              |
|   | 40                                  | 40                            | 48.3              | 45                    | 100                  | 5.5                       | 6.5                           | 135 548               | 141 599              |
|   |                                     |                               |                   | 45                    | 100 <sup>1)</sup>    | 2.5                       | 1.5                           | 135 563               | 141 600              |
|   |                                     |                               |                   | 46                    | 125                  | 5.5                       | 10                            | 134 309               | 141 601              |
|   | 50                                  | 50                            | 60.3              | 56                    | 100                  | 5.5                       | 4.5                           | 135 578               | 141 610              |
|   |                                     |                               |                   | 70                    | 125                  | 5.5                       | 8                             | 134 310               | 141 611              |
|   | <b>Diaphragm material PTFE/EPDM</b> |                               |                   |                       |                      |                           |                               |                       |                      |
|   | 8                                   | 8                             | 13.5              | 1.0                   | 40                   | 5.0                       | 10                            | 135 446               | 137 096              |
|   | 15                                  | 15                            | 21.3              | 6.5                   | 50                   | 5.0                       | 5                             | 143 055               | 141 290              |
|   |                                     |                               |                   | 7                     | 63                   | 5.0                       | 10                            | 134 311               | 141 576              |
|   | 20                                  | 20                            | 26.9              | 12                    | 63                   | 5.5                       | 5                             | 143 057               | 143 056              |
|   |                                     |                               |                   | 13                    | 80                   | 5.0                       | 10                            | 134 312               | 141 583              |
|   | 25                                  | 25                            | 33.7              | 21                    | 80                   | 5.5                       | 7.5                           | 134 313               | 141 589              |
|   | 32                                  | 32                            | 42.4              | 33                    | 100                  | 5.5                       | 8                             | 134 314               | 141 595              |
|   | 40                                  | 40                            | 48.3              | 45                    | 100                  | 5.5                       | 6                             | 143 058               | 141 652              |
|   |                                     |                               |                   | 46                    | 125                  | 5.5                       | 10                            | 134 315               | 141 605              |
|   | 50                                  | 50                            | 60.3              | 56                    | 100                  | 5.5                       | 2.5                           | 143 059               | 143 098              |
|   |                                     |                               |                   | 70                    | 125                  | 5.5                       | 7                             | 134 316               | 141 614              |

1) With reduced spring force; preferred at lower media pressures

**i Further versions on request****Materials**

Seal: Advanced PTFE/EPDM, FKM

**Control function**

B normally open, I double-acting actuator

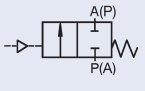
**Port connection**

Clamp acc. to ISO 2852/SMS 3017

## Ordering chart for valves (other versions on request), continued

## Body with weld end acc. to DIN 11850 S2

Surface glass-beaded internal/external, average roughness 1.6 µm

| Control function  | Port Connection [mm] DN             | Orifice (Diaphragm size) [mm] | Outer size Ø [mm] | Kv value water [m³/h] | Actuator size Ø [mm] | Min. pilot pressure [bar] | Max. operating pressure [bar] | Item no. PPS actuator | Item no. PA actuator |
|---|-------------------------------------|-------------------------------|-------------------|-----------------------|----------------------|---------------------------|-------------------------------|-----------------------|----------------------|
| <b>A</b><br><br>2/2-way, NC by spring return | <b>Diaphragm material EPDM</b>      |                               |                   |                       |                      |                           |                               |                       |                      |
|   | 10                                  | 8                             | 13.0              | 1.0                   | 40                   | 5.0                       | 10                            | 138 510               | 138 509              |
|   | 15                                  | 15                            | 19.0              | 4.0                   | 50                   | 5.0                       | 9                             | 138 514               | 141 573              |
|   |                                     |                               |                   | 4.5                   | 63                   | 5.0                       | 10                            | 138 516               | 141 574              |
|   | 20                                  | 15                            | 23.0              | 4.0                   | 63                   | 5.0                       | 10                            | 138 522               | 138 521              |
|   |                                     |                               |                   | 12.5                  | 63                   | 5.0                       | 10                            | 138 526               | 138 525              |
|   | 25                                  | 20                            | 29.0              | 13.5                  | 80                   | 5.5                       | 10                            | 138 528               | 138 527              |
|   |                                     |                               |                   | 18.0                  | 80                   | 5.5                       | 10                            | 138 534               | 138 533              |
|   | 40                                  | 32                            | 41.0              | 24.5                  | 100                  | 5.5                       | 10                            | 138 538               | 138 537              |
|   |                                     |                               |                   | 24.5                  | 100 <sup>1)</sup>    | 3.0                       | 3.5                           | 138 540               | 138 539              |
|   | 50                                  | 40                            | 53.0              | 35                    | 100                  | 5.5                       | 8                             | 138 544               | 138 543              |
|   |                                     |                               |                   | 35                    | 100 <sup>1)</sup>    | 2.5                       | 1.5                           | 138 548               | 138 547              |
|   |                                     |                               |                   | 37                    | 125                  | 5.5                       | 10                            | 138 546               | 138 545              |
|   | <b>Diaphragm material PTFE/EPDM</b> |                               |                   |                       |                      |                           |                               |                       |                      |
|   | 10                                  | 8                             | 13.0              | 1.0                   | 40                   | 5.0                       | 10                            | 138 512               | 138 511              |
|   | 15                                  | 15                            | 19.0              | 4.0                   | 50                   | 5.0                       | 9                             | 143 081               | 143 080              |
|   |                                     |                               |                   | 4.5                   | 63                   | 5.0                       | 10                            | 138 518               | 141 577              |
|   | 20                                  | 15                            | 23.0              | 4.0                   | 50                   | 5.0                       | 9                             | 143 083               | 143 082              |
|   |                                     |                               |                   | 4.5                   | 63                   | 5.0                       | 10                            | 138 524               | 138 523              |
|   | 25                                  | 20                            | 29.0              | 12.5                  | 63                   | 5.0                       | 8                             | 143 089               | 143 088              |
|   |                                     |                               |                   | 13.5                  | 80                   | 5.5                       | 10                            | 138 530               | 138 529              |
|   | 32                                  | 25                            | 35.0              | 18.0                  | 80                   | 5.5                       | 8                             | 138 536               | 138 535              |
|   |                                     |                               |                   | 24.5                  | 100                  | 5.5                       | 8                             | 138 542               | 138 541              |
|   | 50                                  | 40                            | 53.0              | 35                    | 100                  | 5.5                       | 8                             | 143 099               | 143 060              |
|   |                                     |                               |                   | 37                    | 125                  | 5.5                       | 10                            | 138 550               | 138 549              |

1) With reduced spring force; preferred at lower media pressures

**i Further versions on request**
**Materials**

Seal: Advanced PTFE/EPDM, FKM

**Control function**

B normally open, I double-acting actuator

**Port connection**

Clamp acc. to ISO 2852/SMS 3017

## Ordering chart for valves (other versions on request), continued

## Body with threaded port

Surface glass-beaded internal/external, average roughness 1.6 µm

| Control function                             | Port Connection [mm] DN             | Orifice (Diaphragm size) [mm] | Outer size Ø [mm] | Kv value water [m³/h] | Actuator size Ø [mm] | Min. pilot pressure [bar] | Max. operating pressure [bar] | Item no. PPS actuator | Item no. PA actuator |
|--|-------------------------------------|-------------------------------|-------------------|-----------------------|----------------------|---------------------------|-------------------------------|-----------------------|----------------------|
| <b>A</b><br><br>2/2-way, NC by spring return | <b>Diaphragm material EPDM</b>      |                               |                   |                       |                      |                           |                               |                       |                      |
|  | 8                                   | 8                             | G 1/4             | 1.0                   | 40                   | 5.0                       | 10                            | 135 443               | 141 858              |
|  | 15                                  | 15                            | G 1/2             | 6.5                   | 50                   | 5.0                       | 8.5                           | 135 461               | 141 569              |
|  |                                     |                               |                   | 7                     | 63                   | 5.0                       | 10                            | 135 470               | 141 570              |
|  | 20                                  | 20                            | G 3/4             | 12                    | 63                   | 5.5                       | 10                            | 135 483               | 141 578              |
|  |                                     |                               |                   | 13                    | 80                   | 5.0                       | 10                            | 135 491               | 141 579              |
|  | 25                                  | 25                            | G 1               | 18                    | 63                   | 5.0                       | 3.0                           | 135 505               | 141 584              |
|  |                                     |                               |                   | 21                    | 80                   | 5.5                       | 10                            | 135 513               | 141 585              |
|  | 32                                  | 32                            | G 1 1/4           | 33                    | 100                  | 5.5                       | 10                            | 135 527               | 141 590              |
|  |                                     |                               |                   | 33                    | 100 <sup>1)</sup>    | 3.0                       | 3.5                           | 135 535               | 141 591              |
|  | 40                                  | 40                            | G 1 1/2           | 45                    | 100                  | 5.5                       | 6.5                           | 135 550               | 141 596              |
|  |                                     |                               |                   | 45                    | 100 <sup>1)</sup>    | 2.5                       | 1.5                           | 135 565               | 141 597              |
|  |                                     |                               |                   | 46                    | 125                  | 5.5                       | 10                            | 135 557               | 141 598              |
|  | 50                                  | 50                            | G 2               | 56                    | 100                  | 5.5                       | 4.5                           | 135 580               | 141 607              |
|  |                                     |                               |                   | 70                    | 125                  | 5.5                       | 8                             | 135 587               | 141 608              |
|  | <b>Diaphragm material PTFE/EPDM</b> |                               |                   |                       |                      |                           |                               |                       |                      |
|  | 8                                   | 8                             | G 1/4             | 1.0                   | 40                   | 5.0                       | 10                            | 135 447               | 137 097              |
|  | 15                                  | 15                            | G 1/2             | 6.5                   | 50                   | 5.0                       | 5                             | 143 079               | 143 078              |
|  |                                     |                               |                   | 7                     | 63                   | 5.0                       | 10                            | 135 474               | 141 575              |
|  | 20                                  | 20                            | G 3/4             | 12                    | 63                   | 5.5                       | 5                             | 143 087               | 143 086              |
|  |                                     |                               |                   | 13                    | 80                   | 5.0                       | 10                            | 135 493               | 141 582              |
|  | 25                                  | 25                            | G 1               | 21                    | 80                   | 5.5                       | 7.5                           | 135 516               | 141 588              |
|  | 32                                  | 32                            | G 1 1/4           | 33                    | 100                  | 5.5                       | 8                             | 135 542               | 141 594              |
|  | 40                                  | 40                            | G 1 1/2           | 45                    | 100                  | 5.5                       | 6                             | 143 093               | 143 092              |
|  |                                     |                               |                   | 46                    | 125                  | 5.5                       | 10                            | 135 572               | 141 604              |
|  | 50                                  | 50                            | G 2               | 56                    | 100                  | 5.5                       | 2.5                           | 143 097               | 143 096              |
|  |                                     |                               |                   | 70                    | 125                  | 5.5                       | 7                             | 135 594               | 141 613              |

1) With reduced spring force; preferred at lower media pressures

**i Further versions on request**
**Materials**

Seal: Advanced PTFE/EPDM, FKM

**Control function**

B normally open, I double-acting actuator

**Port connection**

Clamp acc. to ISO 2852/SMS 3017

## Ordering chart for accessories

### 3/2-way pilot valves with banjo bolts

Seal material valve FKM, seal material banjo bolt NBR

| Valve for actuator size [Ø mm] | Type  | Pressure inlet P (valve body) | Service port A (banjo bolt) | Orifice [mm] | Q <sub>N</sub> value air [l/min] | Pressure range [bar] | Electrical coil connection Ind. Std. | Power consumption [W] | Item no. voltage/frequency [V/Hz] |         |
|--------------------------------|-------|-------------------------------|-----------------------------|--------------|----------------------------------|----------------------|--------------------------------------|-----------------------|-----------------------------------|---------|
|                                |       |                               |                             |              |                                  |                      |                                      |                       | 024/DC                            | 230/50  |
| 40-50                          | 6012P | G 1/4                         | G 1/8                       | 1.2          | 48                               | 0-10                 | Form B                               | 4                     | 552 295                           | 552 298 |
| 63                             | 6012P | Tube fitting ø6 mm            | G 1/4                       | 1.2          | 48                               | 0-10                 | Form B                               | 4                     | 552 283                           | 552 286 |
| 80-125                         | 6014P | G 1/4                         | G 1/4                       | 2            | 120                              | 0-10                 | Form A                               | 8                     | 424 103                           | 424 107 |

### Cable plug Type 2507, Form B or Type 2508, Form A

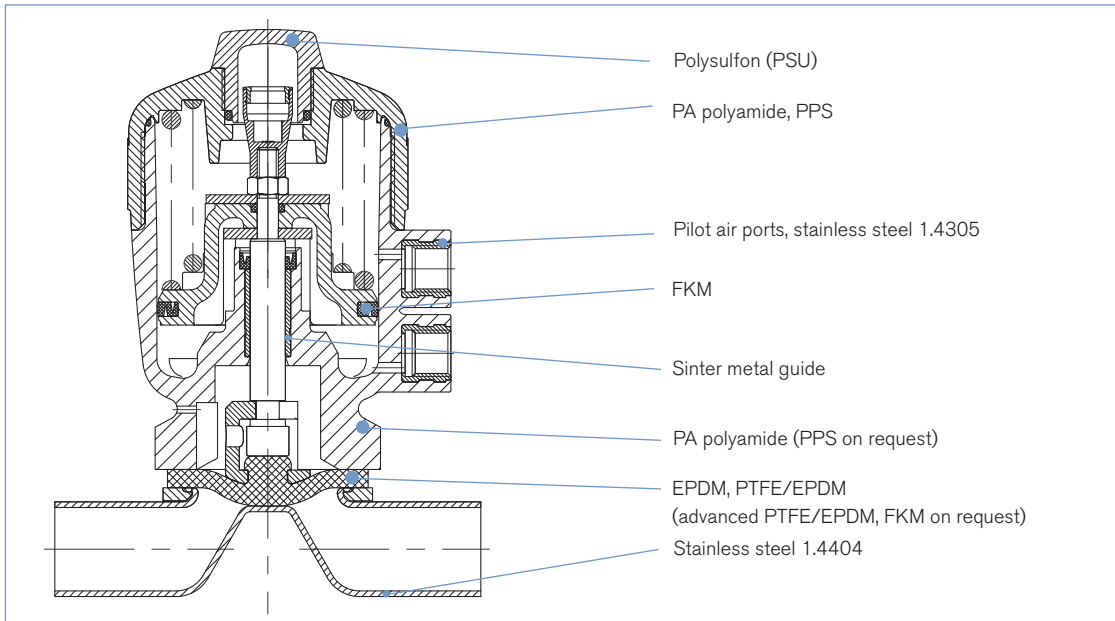
|  | Item no. |
|--|----------|
| Type 2507, Form B Industrial standard, 0 to 250 V without circuitry (Type 6012 P)                | 423 845  |
| Type 2508, Form A acc. DIN EN 175301-803, 0 to 250 V without circuitry (Type 6014 P, Type 0331P) | 008 376  |

For further accessories see the datasheet for Type 1062 or the accessories datasheet, Type 2XXX for the full options programme.

**Note:** For design reasons, some of the accessories cannot be supplied for actuator size Ø 40, 175 and 225 mm. Please request the accessories datasheet Type 2XXX.

## Materials

DN 8-50



## Approvals

### Suitable for foodstuffs



- The composition of the EPDM, PTFE/EPDM and advanced PTFE/EPDM diaphragms corresponds to the *Code of Federal Regulations*, published by the *FDA* (Food and Drug Administration, USA).



## Dimensions [mm]

## Orifice 8-50

| Port Connection [mm] | Actuator size $\varnothing$ [mm] | Body with weld end |     |       |       | Flanged body acc. DIN EN 1092-1 overall length acc. to DIN 3203 |     |     | Body with internal thread |     |     |                      |       |                        |     |
|----------------------|----------------------------------|--------------------|-----|-------|-------|---|-----|-----|---------------------------|-----|-----|----------------------|-------|------------------------|-----|
|                      |                                  | D2                 | C   | H     | K     | D1  | L1  | s   | D1                        | L1  | s   | Flange DIN EN 1092-1 |       | Threaded port G-thread |     |
|                      |                                  | D1                 | L1  | s     | D3    |   |     |     |                           |     |     | L3                   | B     | L2                     |     |
| 8                    | 40                               | 53                 | 34  | 85    | G 1/8 | 13.5  | 90  | 1.6 | -                         | -   | -   | -                    | -     | G 1/4                  | 85  |
| 10                   | 40                               | 53                 | 34  | 85    | G 1/8 | -   | -   | -   | 12.9                      | 90  | 1.3 | -                    | -     | -                      | -   |
| 15                   | 50                               | 64                 | 39  | 122   | G 1/8 | 21.3  | 110 | 1.6 | 19                        | 110 | 1.5 | 95                   | 130   | G 1/2                  | 102 |
|                      | 63                               | 80                 | 52  | 139   | G 1/4 | 21.3  | 110 | 1.6 | 19                        | 110 | 1.5 | 95                   | 130   | G 1/2                  | 102 |
| 20                   | 50                               | 64                 | 39  | 124   | G 1/8 | -   | -   | -   | 23                        | 119 | 1.5 | -                    | -     | -                      | -   |
|                      | 63                               | 80                 | 52  | 140   | G 1/4 | -   | -   | -   | 23                        | 119 | 1.5 | -                    | -     | -                      | -   |
|                      |                                  |                    |     | 148   | G 1/4 | 26.9  | 119 | 1.6 | -                         | -   | -   | 105                  | 150   | G 3/4                  | 118 |
| 80                   | 101                              | 60                 | 174 | G 1/4 | 26.9  | 119   | 1.6 | -   | -                         | -   | 105 | 150                  | G 3/4 | 118                    |     |
| 25                   | 63                               | 80                 | 52  | 149   | G 1/4 | -   | -   | -   | 29                        | 129 | 1.5 | -                    | -     | -                      | -   |
|                      |                                  |                    |     | 157   | G 1/4 | 33.7  | 129 | 2   | -                         | -   | -   | 115                  | 160   | G 1                    | 127 |
|                      | 80                               | 101                | 60  | 170   | G 1/4 | -   | -   | -   | 29                        | 129 | 1.5 | -                    | -     | -                      | -   |
| 32                   | 63                               | 80                 | 52  | 157   | G 1/4 | -   | -   | -   | 35                        | 148 | 1.5 | -                    | -     | -                      | -   |
|                      |                                  |                    |     | 177   | G 1/4 | -   | -   | -   | 35                        | 148 | 1.5 | -                    | -     | -                      | -   |
|                      | 100                              | 127                | 73  | 230   | G 1/4 | 42.4  | 148 | 2   | -                         | -   | -   | 140                  | 180   | G 1 1/4                | 146 |
| 40                   | 100                              | 127                | 73  | 235   | G 1/4 | 48.3  | 161 | 2   | -                         | -   | -   | 150                  | 200   | G 1 1/2                | 159 |
|                      |                                  |                    |     | 227   | G 1/4 | -   | -   | -   | 41                        | 161 | 1.5 | -                    | -     | -                      | -   |
|                      | 125                              | 153                | 86  | 274   | G 1/4 | 48.3  | 161 | 2   | -                         | -   | -   | 150                  | 200   | G 1 1/2                | 159 |
| 50                   | 100                              | 127                | 73  | 237   | G 1/4 | -   | -   | -   | 53                        | 192 | 1.5 | -                    | -     | -                      | -   |
|                      |                                  |                    |     | 244   | G 1/4 | 60.3  | 192 | 2   | -                         | -   | -   | 165                  | 230   | G 2                    | 191 |
|                      | 125                              | 153                | 86  | 274   | G 1/4 | -   | -   | -   | 53                        | 192 | 1.5 | -                    | -     | -                      | -   |
|                      |                                  |                    |     | 278   | G 1/4 | 60.3  | 192 | 2   | -                         | -   | -   | 165                  | 230   | G2                     | 191 |

Ordering information for valve system On/Off Classic Type 8801-DB/8803-DB

A valve system On/Off Classic Type 8801-DB/8803-DB consists of a diaphragm valve Type 2031 and a valve actuation system control head Type 8691, a pneumatic control unit Type 8690 or an electrical position feedback Type 1062 (see separate datasheets).

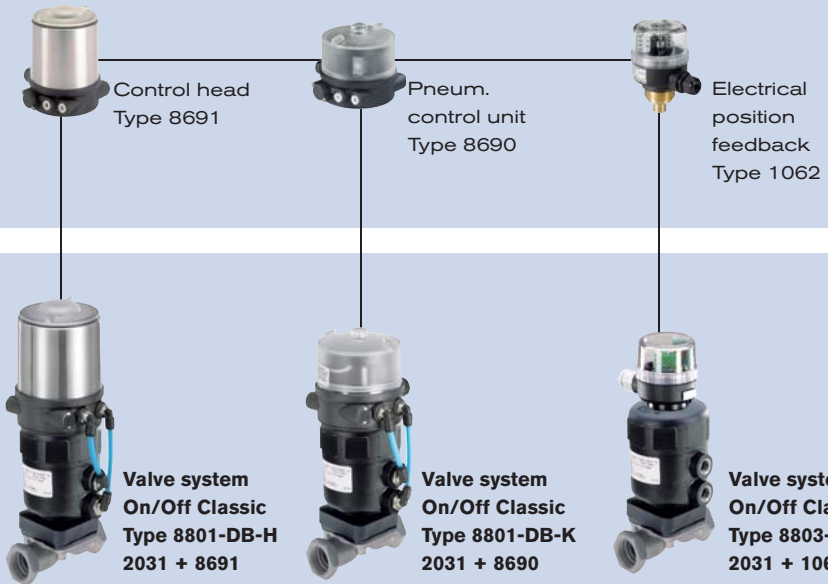
For the configuration of further valve systems please use the "Request for quotation" on p. 14 [go to page](#)

You order two components and receive a complete assembled and certified valve.

Ordering the valve system On/Off Classic Type 8801-DB/8803-DB

Diaphragm valve Type 2031 with required port connection

Control units



Membranventil mit gewünschter Ansteuerung

When you click on the orange box "More info." below, you will come to our website for the resp. product where you can download the datasheet.

Control head Type 8691



More info.

The new generation of integrated control heads for combination with actuators from the process valve series Type 20xx/21xx is specially designed for the requirements of hygienic process environments. The intelligent control head, Type 8691, detects the valve position by means of a contact-free analog position sensor circumventing excessive wear of mechanical parts. Single or double-acting actuators are controlled via the integral pilot valve. Communication interfaces AS-Interface and DeviceNet are available as options.

Main customer benefits:

- Automatic setting of the control head at the push of a button
- Even under dirty or dark environments, a clearly visible status display due to powerful LEDs
- Monitoring and diagnosis: Process valve systems with field bus interface used in modern plant processes
- Integrated pilot valve with manual actuation
- Air intake filter enhances the process valve system availability
- Simple and reliable actuator adaptations allowing additional actuators of the process valve series, Type 20xx or actuators from other manufacturers to be used

Pneumatic control unit Type 8690



More info.

The new generation of integrated controllers for combination with actuators from the process valve series Type 20xx/21xx is specially designed for the requirements of hygienic process environments. The pneumatic control unit Type 8690 combines electrical position feedback and pneumatic control for single or double-acting actuators, and is also optionally available as an intrinsically safe model to ATEX.

Main customer benefits:

- Integrated pilot valve with manual actuation
- Air intake filter enhances the process valve system availability
- Simple and reliable actuator adaptations allowing additional actuators of the process valve series, Type 20xx or actuators from other manufacturers to be used

Electrical position feedback Type 1062



More info.

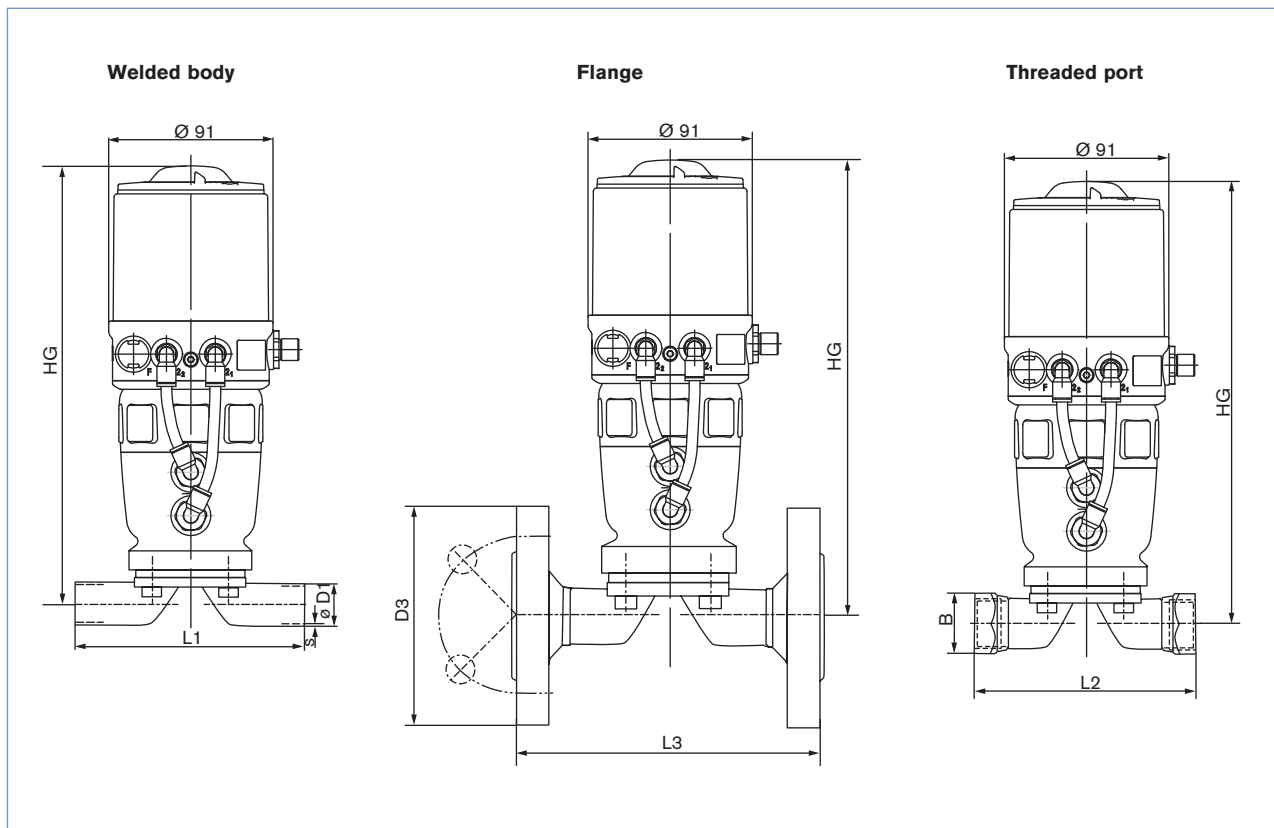
Positions are electrically signaled according to switch type:

- open,
- closed or
- open and closed.

LEDs provide optical position indication (except for Namur Ex-version). Mechanical or inductive switches are housed in a compact splash-proof enclosure. The position indicator can be rotated 360° and is easily fitted to the valve. Trip cams do not require adjustment. The unit only needs to be screwed on and connected to be ready for operation.

Dimensions for valve system On/Off Classic Type 8801-DB-H [mm]

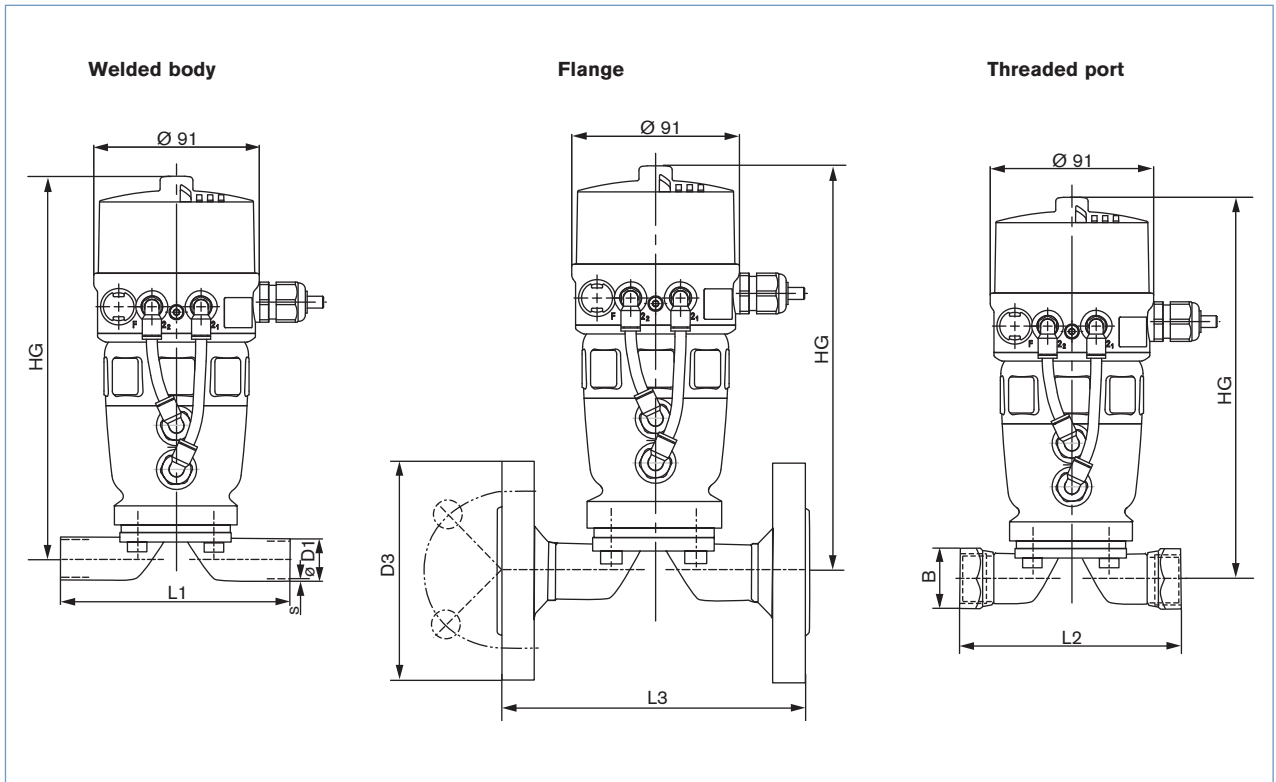
Dimensions valve system On/Off Classic Type 8801-DB-H with control head Type 8691 [mm]



| Port connection [mm] | Actuator size $\varnothing$ [mm] | HG  | Welded body acc. to  |     |     |              |     |     | Flange DIN EN 1092-1 |     | Threaded port G |     |
|----------------------|----------------------------------|-----|----------------------|-----|-----|--------------|-----|-----|----------------------|-----|-----------------|-----|
|                      |                                  |     | EN ISO 1127/ISO 4200 |     |     | DIN 11850 S2 |     |     | D3                   | L3  | B               | L2  |
|                      |                                  |     | D1                   | L1  | s   | D1           | L1  | s   |                      |     |                 |     |
| 15                   | 50                               | 219 | 21.3                 | 110 | 1.6 | 19           | 110 | 1.5 | 95                   | 130 | G 1/2           | 102 |
|                      | 63                               | 236 | 21.3                 | 110 | 1.6 | 19           | 110 | 1.5 | 95                   | 130 | G 1/2           | 102 |
| 20                   | 63                               | 247 | 26.9                 | 119 | 1.6 | 23           | 119 | 1.5 | 105                  | 150 | G 3/4           | 118 |
|                      | 80                               | 273 | 26.9                 | 119 | 1.6 | -            | -   | -   | 105                  | 150 | G 3/4           | 118 |
| 25                   | 63                               | 256 | 33.7                 | 129 | 2   | 29           | 129 | 1.5 | 115                  | 160 | G 1             | 127 |
|                      | 80                               | 276 | 33.7                 | 129 | 2   | 29           | 129 | 1.5 | 115                  | 160 | G 1             | 127 |
| 32                   | 100                              | 327 | 42.4                 | 148 | 2   | -            | -   | -   | 140                  | 180 | G 1 1/4         | 146 |
| 40                   | 100                              | 330 | 48.3                 | 161 | 2   | 41           | 161 | 1.5 | 150                  | 200 | G 1 1/2         | 159 |
|                      | 125                              | 369 | 48.3                 | 161 | 2   | -            | -   | -   | 150                  | 200 | G 1 1/2         | 159 |
| 50                   | 100                              | 341 | 60.3                 | 192 | 2   | 53           | 192 | 1.5 | 165                  | 230 | G 2             | 191 |
|                      | 125                              | 375 | 60.3                 | 192 | 2   | 53           | 192 | 1.5 | 165                  | 230 | G 2             | 191 |

Dimensions for valve system On/Off Classic Type 8801-DB-K [mm]

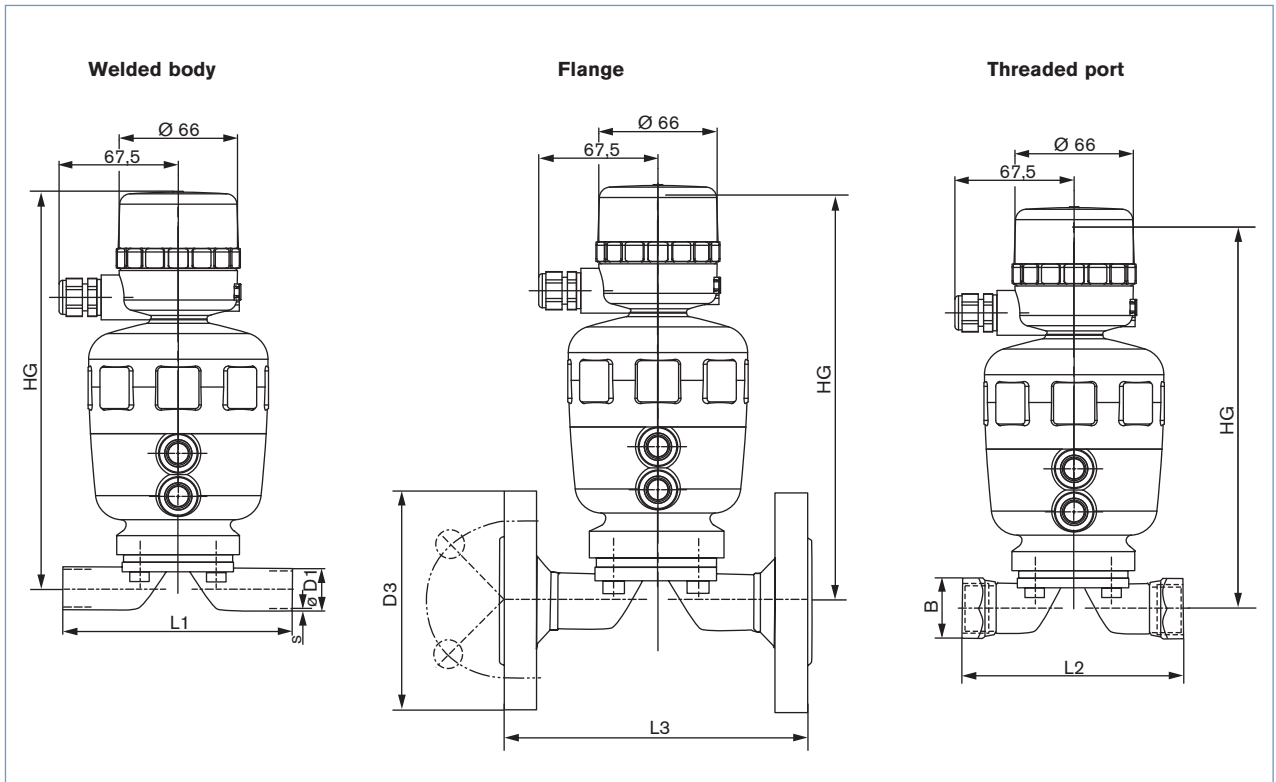
Dimensions valve system On/Off Classic Type 8801-DB-K with pneumatic control unit Type 8690 [mm]



| Port Connection [mm] | Actuator size Ø [mm] | HG  | Welded body acc. to  |     |     |              |     |     | Flange DIN EN 1092-1 |     | Threaded port G |     |
|----------------------|----------------------|-----|----------------------|-----|-----|--------------|-----|-----|----------------------|-----|-----------------|-----|
|                      |                      |     | EN ISO 1127/ISO 4200 |     |     | DIN 11850 S2 |     |     | D3                   | L3  | B               | L2  |
|                      |                      |     | D1                   | L1  | s   | D1           | L1  | s   |                      |     |                 |     |
| 15                   | 50                   | 187 | 21.3                 | 110 | 1.6 | 19           | 110 | 1.5 | 95                   | 130 | G 1/2           | 102 |
|                      | 63                   | 204 | 21.3                 | 110 | 1.6 | 19           | 110 | 1.5 | 95                   | 130 | G 1/2           | 102 |
| 20                   | 63                   | 215 | 26.9                 | 119 | 1.6 | 23           | 119 | 1.5 | 105                  | 150 | G 3/4           | 118 |
|                      | 80                   | 241 | 26.9                 | 119 | 1.6 | -            | -   | -   | 105                  | 150 | G 3/4           | 118 |
| 25                   | 63                   | 224 | 33.7                 | 129 | 2   | 29           | 129 | 1.5 | 115                  | 160 | G 1             | 127 |
|                      | 80                   | 244 | 33.7                 | 129 | 2   | 29           | 129 | 1.5 | 115                  | 160 | G 1             | 127 |
| 32                   | 100                  | 295 | 42.4                 | 148 | 2   | -            | -   | -   | 140                  | 180 | G 1 1/4         | 146 |
| 40                   | 100                  | 298 | 48.3                 | 161 | 2   | 41           | 161 | 1.5 | 150                  | 200 | G 1 1/2         | 159 |
|                      | 125                  | 337 | 48.3                 | 161 | 2   | -            | -   | -   | 150                  | 200 | G 1 1/2         | 159 |
| 50                   | 100                  | 309 | 60.3                 | 192 | 2   | 53           | 192 | 1.5 | 165                  | 230 | G 2             | 191 |
|                      | 125                  | 343 | 60.3                 | 192 | 2   | 53           | 192 | 1.5 | 165                  | 230 | G 2             | 191 |

Dimensions for valve system On/Off Classic Type 8803-DB [mm]

Dimensions valve system On/Off Classic Type 8803-DB with electrical position feedback Type 1062 [mm]



| Port connection [mm] | Actuator size Ø [mm] | HG  | Welded body acc. to  |     |     |              |     |     | Flange DIN EN 1092-1 |     | Threaded port G |     |
|----------------------|----------------------|-----|----------------------|-----|-----|--------------|-----|-----|----------------------|-----|-----------------|-----|
|                      |                      |     | EN ISO 1127/ISO 4200 |     |     | DIN 11850 S2 |     |     | D3                   | L3  | B               | L2  |
|                      |                      |     | D1                   | L1  | s   | D1           | L1  | s   |                      |     |                 |     |
| 15                   | 50                   | 177 | 21.3                 | 110 | 1.6 | 19           | 110 | 1.5 | 95                   | 130 | G 1/2           | 102 |
|                      | 63                   | 194 | 21.3                 | 110 | 1.6 | 19           | 110 | 1.5 | 95                   | 130 | G 1/2           | 102 |
| 20                   | 63                   | 205 | 26.9                 | 119 | 1.6 | 23           | 119 | 1.5 | 105                  | 150 | G 3/4           | 118 |
|                      | 80                   | 231 | 26.9                 | 119 | 1.6 | -            | -   | -   | 105                  | 150 | G 3/4           | 118 |
| 25                   | 63                   | 214 | 33.7                 | 129 | 2   | 29           | 129 | 1.5 | 115                  | 160 | G 1             | 127 |
|                      | 80                   | 234 | 33.7                 | 129 | 2   | 29           | 129 | 1.5 | 115                  | 160 | G 1             | 127 |
| 32                   | 100                  | 285 | 42.4                 | 148 | 2   | -            | -   | -   | 140                  | 180 | G 1 1/4         | 146 |
| 40                   | 100                  | 288 | 48.3                 | 161 | 2   | 41           | 161 | 1.5 | 150                  | 200 | G 1 1/2         | 159 |
|                      | 125                  | 327 | 48.3                 | 161 | 2   | -            | -   | -   | 150                  | 200 | G 1 1/2         | 159 |
| 50                   | 100                  | 299 | 60.3                 | 192 | 2   | 53           | 192 | 1.5 | 165                  | 230 | G 2             | 191 |
|                      | 125                  | 333 | 60.3                 | 192 | 2   | 53           | 192 | 1.5 | 165                  | 230 | G 2             | 191 |

**Note**  
You can fill out the fields directly in the PDF file before printing out the form.

**Valve system On/Off Classic Type 8801-DB/8803-DB – request for quotation**

Please fill out and send to your nearest Bürkert facility\* with your inquiry or order

|               |                |
|---------------|----------------|
| Company       | Contact person |
| Customer no.  | Department     |
| Address       | Tel./Fax       |
| Postcode/town | E-Mail         |

= mandatory fields to fill out       Quantity       Required delivery date

**Operating data**

|   |                                 |                                |                              |                      |
|---|---------------------------------|--------------------------------|------------------------------|----------------------|
| Pipeline  | DN                              | <input type="text"/>           | PN                           | <input type="text"/> |
| Pipe material                                   | <input type="text"/>            |                                |                              |                      |
| Process medium                                  | <input type="text"/>            |                                |                              |                      |
| Type of medium                                  | <input type="checkbox"/> Liquid | <input type="checkbox"/> Steam | <input type="checkbox"/> Gas |                      |
|   | standard                        | unit                           |                              |                      |
| Flow rate (Q, Q <sub>N</sub> , W) <sup>1)</sup> | <input type="text"/>            | <input type="text"/>           |                              |                      |
| Temperature at valve inlet                      | <input type="text"/>            | <input type="text"/>           |                              |                      |
| Absolute pressure at valve inlet                | <input type="text"/>            | <input type="text"/>           |                              |                      |
| Steam sterilisation                             | temperature                     | <input type="text"/>           |                              |                      |

<sup>1)</sup> standard unit: Liquid Q = m<sup>3</sup>/h; Steam W = kg/h; Gas Q<sub>N</sub> = Nm<sup>3</sup>/h

**Valve features**

**Specification key**

automatically transferred from last page

[go to page](#)

|                          |                          |                          |                          |                          |                          |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|

Surface finish (if not standard)

internal  µm      external  µm

Pilot pressure

min.       max.

**Control unit features**

Click on the orange box "More info." below... you will come to our website for the resp. product where you can download the datasheet.

| Control head  | Pneumatic control unit  | Electrical position feedback  |
|---|---|---|
| <input type="checkbox"/> <b>Type 8691</b> <span style="background-color: #f4a460; padding: 2px;">More info.</span>  | <input type="checkbox"/> <b>Type 8690</b> <span style="background-color: #f4a460; padding: 2px;">More info.</span>  | <input type="checkbox"/> <b>Type 1062</b> <span style="background-color: #f4a460; padding: 2px;">More info.</span>  |
| <b>Pneumatic function</b><br><input type="checkbox"/> Single-acting <input type="checkbox"/> Double-acting<br><br><b>Pilot air ports</b><br><input type="checkbox"/> Push-in connector external ø 6 mm or 1/4"<br><input type="checkbox"/> Thread G 1/8"<br><br><b>Communication</b><br><input type="checkbox"/> ASI<br><input type="checkbox"/> Multipol M12<br><input type="checkbox"/> Flat cable clip, 1 m cable<br><input type="checkbox"/> DeviceNet<br><br>Please specify item no. if known:<br><input type="text"/> | <b>Pneumatic function</b><br><input type="checkbox"/> Single-acting <input type="checkbox"/> Double-acting<br><input type="checkbox"/> Without pilot valve<br><br><b>Position feedback</b><br><input type="checkbox"/> 1x inductive <input type="checkbox"/> 2x inductive<br><input type="checkbox"/> 1x inductive (NAMUR) <input type="checkbox"/> 2x inductive (NAMUR)<br><input type="checkbox"/> 1x mechanical <input type="checkbox"/> 2x mechanical<br><br><b>Supply voltage</b><br><input type="checkbox"/> 24 V / DC (ATEX Zone 2/22)<br><input type="checkbox"/> Ex ia IIC T6 (ATEX Zone 1)<br><br><b>Pilot air ports</b><br><input type="checkbox"/> Push-in connector <input type="checkbox"/> Thread G 1/8"<br>external ø 6 mm or 1/4"<br><br>Please specify item no. if known:<br><input type="text"/> | <b>Limit switches</b><br><input type="checkbox"/> mechanical<br><input type="checkbox"/> Voltage 12-48 V<br><input type="checkbox"/> Voltage 110-250 V<br><input type="checkbox"/> inductive<br><input type="checkbox"/> NAMUR EExi<br><br><b>Status</b><br><input type="checkbox"/> closed<br><input type="checkbox"/> open<br><input type="checkbox"/> open/closed<br><br>Please specify item no. if known:<br><input type="text"/> |

continued on next page →

Valve system On/Off Classic Type 8801-DB/8803-DB – request for quotation, *cont.*

| Control unit features                                     |  |
|---|--|
| <b>Pilot valve</b>  | <b>Stroke limitation</b>   |
| <input type="checkbox"/> Pilot valve                      | <input type="checkbox"/> Stroke limitation   |
| Power supply <input type="text"/>                         | <input type="checkbox"/> <b>Min./max. stroke limitation</b> , with visual position indicator |
|   | <input type="checkbox"/> <b>Max. stroke limitation</b> , without visual position indicator   |
| Please specify item no. if known:<br><input type="text"/> | Please specify item no. if known:<br><input type="text"/>                                    |

| Certifications  |
|---|
| <input type="checkbox"/> Attestation of compliance with the order EN-ISO 10204 2.1 (Item-No. 440 788) |
| <input type="checkbox"/> Test report EN-ISO 10204 2.2 (Item-No. 803 722)                              |
| <input type="checkbox"/> EN161 (European Gas Device guideline)  |
| <input type="checkbox"/> FDA - USP certificate  |

| Comment / sketch |
|------------------|
|                  |
|                  |
|                  |
|                  |
|                  |

Valve features, specification key

Example

A 15 AB VA SA42 NO05

Specification key

Please make a choice

CONTROL FUNCTION

|   |                                  |
|---|----------------------------------|
| A | normally closed by spring action |
| B | normally open by spring action   |
| I | double acting                    |

ORIFICE (Diaphragm size) [mm]

|    |
|----|
| 08 |
| 15 |
| 20 |
| 25 |
| 32 |
| 40 |
| 50 |

SEAL MATERIAL

|    |                                  |
|----|----------------------------------|
| AB | EPDM in food quality             |
| EA | PTFE/EPDM                        |
| FF | FKM                              |
| EU | advanced PTFE/EPDM in two pieces |
| ET | advanced PTFE (bonded on EPDM)   |

BODY MATERIAL

|    |  |
|----|--|
| VA | Cold-formed stainless steel<br>1.4404/316L |
|----|--|

VARIABLE CODES

|      |                                |
|------|--------------------------------|
| NO05 | Internal glass beaded Ra=1.6µm |
|------|--------------------------------|



PORT CONNECTION

Welded

| Port conn. [mm] | EN ISO 1127/ ISO 4200 | DIN 11850 Series 2 |
|-----------------|-----------------------|--------------------|
| 8               | SA40=13.5x1.6         |                    |
| 10              | SA41=17.2x1.6         | SD40=13x1.5        |
| 15              | SA42=21.3x1.6         | SD42=19x1.5        |
| 20              | SA43=26.9x1.6         | SD43=23x1.5        |
| 25              | SA44=33.7x2.0         | SD44=29x1.5        |
| 32              | SA45=42.4x2.0         | SD45=35x1.5        |
| 40              | SA46=48.3x2.0         | SD46=41x1.5        |
| 50              | SA47=60.3x2.0         | SD47=53x1.5        |

Flange

| Port conn. [mm] | DIN EN 1092-1             |
|-----------------|---------------------------|
| 15              | FD22 - L=130 mm, Ø=95 mm  |
| 20              | FD23 - L=150 mm, Ø=105 mm |
| 25              | FD24 - L=160 mm, Ø=115 mm |
| 32              | FD25 - L=180 mm, Ø=140 mm |
| 40              | FD26 - L=200 mm, Ø=150 mm |
| 50              | FD27 - L=230 mm, Ø=165 mm |

Thread

| Port conn. [mm] | G              |
|-----------------|----------------|
| 8               | GM82 - G 1/4   |
| 15              | GM84 - G 1/2   |
| 20              | GM85 - G 3/4   |
| 25              | GM86 - G 1     |
| 32              | GM87 - G 1 1/4 |
| 40              | GM88 - G 1 1/2 |
| 50              | GM89 - G 2     |

Clamp

| Port conn. [mm] | ISO 2852 SMS 3017                   |
|-----------------|-------------------------------------|
| 8               | TC51=Clamp 34 - for tube ISO 4200   |
| 10              | TC41=Clamp 34 - for tube ISO 4200   |
| 15              | TC42=Clamp 34 - for tube ISO 4200   |
| 20              | TC43=Clamp 50.5 - for tube ISO 4200 |
| 25              | TC44=Clamp 50.5 - for tube ISO 4200 |
| 40              | TC46=Clamp 64 - for tube ISO 4200   |
| 50              | TC47=Clamp 77.5 - for tube ISO 4200 |