





## 2/2-way Angle-Seat Valve with stainless steel design for medium up to +185 °C, DN 15-65

- High flow rates
- High cycle life
- Flow optimised body in stainless steel
- Deliverable with flow direction below or above seat
- Clean design for optimal use in hygienic environment
- Suitable for steam up to 10 bar(g)

Type 2100 threaded can be combined with...



**Type 8691**  
Control Head



**Type 8695**  
Control Head



**Type 8690**  
Pneumatic Control Unit



**Type 8697**  
Pneumatic Control Unit



**Type 8619**  
MultiCELL Transmitter/Controller



**Type 8222**  
Conductivity transmitter

In line with Bürkert's philosophy for modular valves and sensors the construction of the 2100 angle-seat valve fulfils tough criteria for process environments. Unrivalled cycle life and sealing integrity is guaranteed by the proven self adjusting spindle packing with V-seals.

The design enables the easy integration of automation modules whether they are electrical/optical position feedback, pneumatic control units, an integrated fieldbus interface.

The fully integrated system has a compact and smooth design, integrated pneumatic lines, IP65/67 protection class and superior chemical resistance.

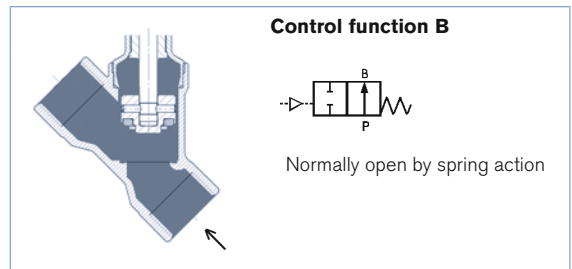
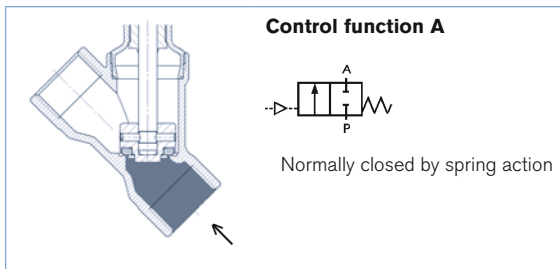
An explosion-proof version is also available.

| Technical data             |  |
|----------------------------|--|
| <b>Orifice</b>             | DN15 to DN65   |
| <b>Port connections</b>    | Threaded<br>Weld and Clamp   |
| <b>Body material</b>       | Casted stainless steel 316L  |
| <b>Nominal pressure</b>    | PN25 (Body)  |
| <b>Actuator material</b>   | Actuator<br>Cover  |
|                            | PPS<br>Stainless steel 1.4561 (316Ti)  |
| <b>Sealing material</b>    | PTFE   |
| <b>Medium</b>              | Water, alcohol, oils, fuels, hydraulic fluids, salt solution, alkali solutions, organic solvents, steam, optional fuel gas (EC Gas Appliances Directive 2009/142/EG) |
| <b>Viscosity</b>           | max. 600 mm <sup>2</sup> /s  |
| <b>Spindle packing</b>     | PTFE V-rings with spring compensation  |
| <b>Medium temperature</b>  | -10 to +185 °C   |
| <b>Ambient temperature</b> | 0 to +55 °C (integrated control head)<br>0 to +60 °C (push-in air ports)<br>0 to +100 °C (threaded air ports)  |
| <b>Control medium</b>      | Neutral gases, air   |
| <b>Max. pilot pressure</b> | max. 10 bar; actuator size 130 mm, 7 bar   |
| <b>Pilot air ports</b>     | Push-in connector for external ø 6 mm or 1/4" tube, thread G1/8 (on request)   |
| <b>Installation</b>        | As required, preferably with actuator in upright position  |

### Content

| Valve specifications<br>Type 2100      | System spec. On/Off ELEMENT<br>Type 8801-YE | Request for quotation<br>Type 8801-YE |
|--|---|---------------------------------------|
| Technical data & ordering info. p. 1-7 | Technical data & ordering info. p. 8-12     | p.13                                  |

Technical data angle seat valve Type 2100 flow direction below the seat (for gases and liquids)



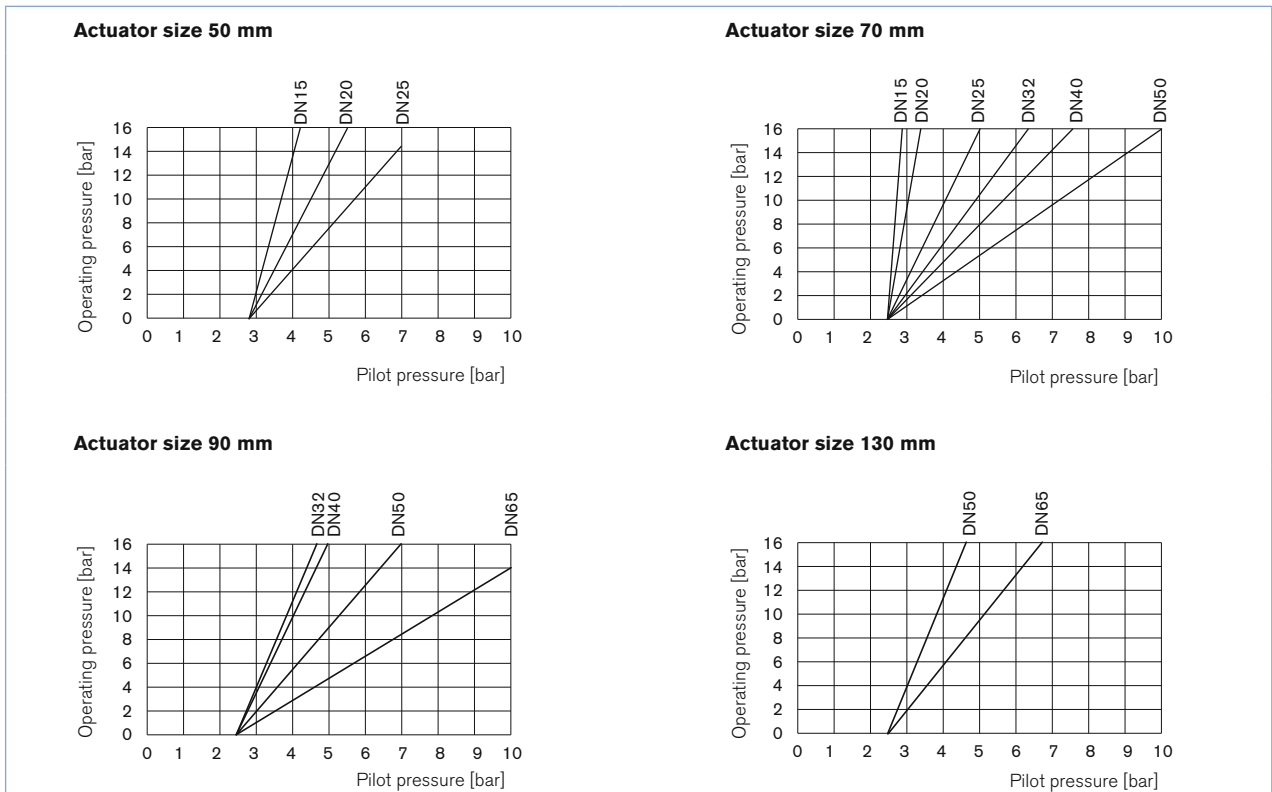
| Orifice [mm] | Actuator size [mm] | Kv value water (m³/h) | Minimum pilot pressure CFA [bar] | Operating pressure up to +185°C |           |
|--------------|--------------------|-----------------------|----------------------------------|---------------------------------|-----------|
|              |                    |                       |                                  | CFA [bar]                       | CFB [bar] |
| 15           | 50                 | 5                     | 5.2                              | 25                              | 16        |
|              | 70                 | 5                     | 5.0                              | 25                              | 16        |
| 20           | 50                 | 10                    | 5.2                              | 16                              | 16        |
|              | 70                 | 11                    | 5.0                              | 20                              | 16        |
| 25           | 50                 | 15                    | 5.2                              | 9                               | 14.5      |
|              | 70                 | 18                    | 5.0                              | 16                              | 16        |
| 32           | 70                 | 27                    | 5.0                              | 8.5                             | 16        |
|              | 90                 | 28                    | 5.0                              | 16                              | 16        |
| 40           | 70                 | 38                    | 5.0                              | 6                               | 16        |
|              | 90                 | 40                    | 5.0                              | 16                              | 16        |
| 50           | 70                 | 52                    | –                                | –                               | 16        |
|              | 90                 | 55                    | 5.0                              | 10                              | 16        |
|              | 130                | 62                    | 5.0                              | 16                              | 16        |
| 65           | 90                 | 85                    | 5.0                              | 5                               | 14        |
|              | 130                | 95                    | 5.6                              | 16 (15*)                        | 16 (15*)  |

\* acc. to the Pressure Equipment Directive 97/23 / EC for compressible fluids in Group 1 (hazardous gases and vapors in accordance with Article 3, Section 1.3, letter a, first dash)

**Flow rate:** Kv value water [m³/h]: Measured at +20°C, 1 bar pressure at valve inlet and free outlet.

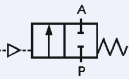
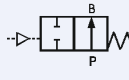
**Pressure valves [bar]:** Overpressure to the atmospheric pressure

Pressure charts with control function B and flow direction below the seat

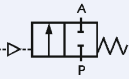
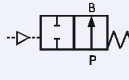


## Ordering chart Type 2100, flow direction below the seat (for gases and liquids)

## G threaded port, flow direction below the seat

| Control function  | Orifice (mm) | Actuator size $\phi$ [mm] | Threaded port connection | Minimum pilot pressure [bar] | Operating pressure up to +185°C [bar] | Item no. | Item no. certified Atex II 2GD Mechanical |
|---|--------------|---------------------------|--------------------------|------------------------------|---------------------------------------|----------|---|
| <b>A</b> 2/2-way valve, NC<br> | 15           | 50                        | G 1/2"                   | 5.2                          | 25                                    | 213 619  | 259 510                                   |
|   |              | 70                        | G 1/2"                   | 5.0                          | 25                                    | 213 620  | 259 511                                   |
|   | 20           | 50                        | G 3/4"                   | 5.2                          | 16                                    | 227 616  | 259 513                                   |
|   |              | 70                        | G 3/4"                   | 5.0                          | 20                                    | 213 621  | 259 515                                   |
|   | 25           | 50                        | G 1"                     | 5.2                          | 9                                     | 227 617  | 259 516                                   |
|   |              | 70                        | G 1"                     | 5.0                          | 16                                    | 213 622  | 259 517                                   |
|   | 32           | 70                        | G 1 1/4"                 | 5.0                          | 8.5                                   | 213 623  | 259 519                                   |
|   |              | 90                        | G 1 1/4"                 | 5.0                          | 16                                    | 213 624  | 259 521                                   |
|   | 40           | 70                        | G 1 1/2"                 | 5.0                          | 6                                     | 213 625  | 259 523                                   |
|   |              | 90                        | G 1 1/2"                 | 5.0                          | 16                                    | 213 627  | 259 524                                   |
|   | 50           | 90                        | G 2"                     | 5.0                          | 10                                    | 175 108  | 259 525                                   |
|   |              | 130                       | G 2"                     | 5.0                          | 16                                    | 188 610  | 259 526                                   |
|   | 65           | 90                        | G 2 1/2"                 | 5.0                          | 5                                     | 239 456  | 259 527                                   |
|   |              | 130                       | G 2 1/2"                 | 5.6                          | 16 (15*)                              | 239 472  | 259 530                                   |
| <b>B</b> 2/2-way valve, NO<br> | 15           | 50                        | G 1/2"                   | see chart on p. 2            | 16                                    | 213 637  | 259 531                                   |
|   |              | 70                        | G 1/2"                   |                              | 16                                    | 213 638  | 259 532                                   |
|   | 20           | 50                        | G 3/4"                   |                              | 16                                    | 213 639  | 259 533                                   |
|   |              | 70                        | G 3/4"                   |                              | 16                                    | 213 640  | 259 535                                   |
|   | 25           | 70                        | G 1"                     |                              | 16                                    | 213 641  | 259 537                                   |
|   | 32           | 70                        | G 1 1/4"                 |                              | 16                                    | 213 642  | 259 538                                   |
|   | 40           | 70                        | G 1 1/2"                 |                              | 16                                    | 213 643  | 259 539                                   |
|   | 50           | 70                        | G 2"                     |                              | 16                                    | 175 123  | 259 540                                   |
|   | 65           | 90                        | G 2 1/2"                 |                              | 14                                    | 239 464  | 259 565                                   |
|   |              | 130                       | G 2 1/2"                 |                              | 16 (15*)                              | 239 479  | 259 566                                   |

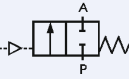
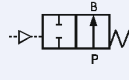
## NPT threaded port, flow direction below the seat

| Control function  | Orifice (mm) | Actuator size $\phi$ [mm] | Threaded port connection | Minimum pilot pressure [bar] | Operating pressure up to +185°C [bar] | Item no. |
|---|--------------|---------------------------|--------------------------|------------------------------|---------------------------------------|----------|
| <b>A</b> 2/2-way valve, NC<br> | 15           | 50                        | NPT 1/2"                 | 5.2                          | 25                                    | 213 644  |
|   |              | 70                        | NPT 1/2"                 | 5.0                          | 25                                    | 213 645  |
|   | 20           | 50                        | NPT 3/4"                 | 5.2                          | 16                                    | 227 618  |
|   |              | 70                        | NPT 3/4"                 | 5.0                          | 20                                    | 213 646  |
|   | 25           | 50                        | NPT 1"                   | 5.2                          | 9                                     | 227 619  |
|   |              | 70                        | NPT 1"                   | 5.0                          | 16                                    | 213 647  |
|   | 32           | 70                        | NPT 1 1/4"               | 5.0                          | 8.5                                   | 213 648  |
|   |              | 90                        | NPT 1 1/4"               | 5.0                          | 16                                    | 213 649  |
|   | 40           | 70                        | NPT 1 1/2"               | 5.0                          | 6                                     | 213 650  |
|   |              | 90                        | NPT 1 1/2"               | 5.0                          | 16                                    | 213 651  |
|   | 50           | 90                        | NPT 2"                   | 5.0                          | 10                                    | 188 641  |
|   |              | 130                       | NPT 2"                   | 5.0                          | 16                                    | 188 642  |
|   | 65           | 90                        | NPT 2 1/2"               | 5.0                          | 5                                     | 239 457  |
|   |              | 130                       | NPT 2 1/2"               | 5.6                          | 16 (15*)                              | 239 473  |
| <b>B</b> 2/2-way valve, NO<br> | 15           | 50                        | NPT 1/2"                 | see chart on p. 2            | 16                                    | 213 661  |
|   |              | 70                        | NPT 1/2"                 |                              | 16                                    | 213 662  |
|   | 20           | 50                        | NPT 3/4"                 |                              | 16                                    | 213 663  |
|   |              | 70                        | NPT 3/4"                 |                              | 16                                    | 213 664  |
|   | 25           | 70                        | NPT 1"                   |                              | 16                                    | 213 665  |
|   | 32           | 70                        | NPT 1 1/4"               |                              | 16                                    | 213 666  |
|   | 40           | 70                        | NPT 1 1/2"               |                              | 16                                    | 213 667  |
|   | 50           | 70                        | NPT 2"                   |                              | 16                                    | 188 656  |
|   | 65           | 90                        | NPT 2 1/2"               |                              | 14                                    | 239 465  |
|   |              | 130                       | NPT 2 1/2"               |                              | 16 (15*)                              | 239 480  |

\* acc. to the Pressure Equipment Directive 97/23 / EC for compressible fluids in Group 1 (hazardous gases and vapors in accordance with Article 3, Section 1.3, letter a, first dash)


Ordering chart Type 2100, flow direction below the seat (for gases and liquids), *continued*

## RC threaded port, flow direction below the seat

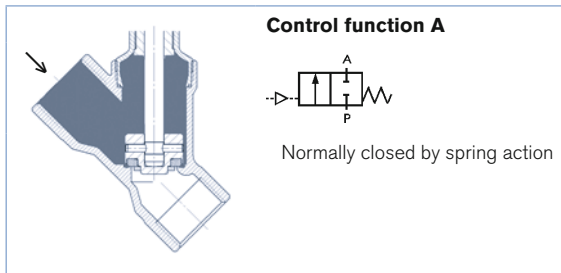
| Control function  | Orifice (mm) | Actuator size $\varnothing$ [mm] | Threaded port connection | Minimum pilot pressure [bar] | Operating pressure up to +185°C [bar] | Item no. |
|---|--------------|----------------------------------|--------------------------|------------------------------|---------------------------------------|----------|
| <b>A</b> 2/2-way valve, NC<br> | 15           | 50                               | RC 1/2"                  | 5.2                          | 25                                    | 213 668  |
|   |              | 70                               | RC 1/2"                  | 5.0                          | 25                                    | 213 669  |
|   | 20           | 50                               | RC 3/4"                  | 5.2                          | 16                                    | 227 621  |
|   |              | 70                               | RC 3/4"                  | 5.0                          | 20                                    | 213 670  |
|   | 25           | 50                               | RC 1"                    | 5.2                          | 9                                     | 227 622  |
|   |              | 70                               | RC 1"                    | 5.0                          | 16                                    | 213 671  |
|   | 32           | 70                               | RC 1 1/4"                | 5.0                          | 8.5                                   | 213 672  |
|   |              | 90                               | RC 1 1/4"                | 5.0                          | 16                                    | 213 673  |
|   | 40           | 70                               | RC 1 1/2"                | 5.0                          | 6                                     | 213 674  |
|   |              | 90                               | RC 1 1/2"                | 5.0                          | 16                                    | 213 675  |
|   | 50           | 90                               | RC 2"                    | 5.0                          | 10                                    | 188 664  |
|   |              | 130                              | RC 2"                    | 5.0                          | 16                                    | 188 665  |
|   | 65           | 90                               | RC 2 1/2"                | 5.0                          | 5                                     | 239 458  |
|   |              | 130                              | RC 2 1/2"                | 5.6                          | 16 (15*)                              | 239 474  |
| <b>B</b> 2/2-way valve, NO<br> | 15           | 50                               | RC 1/2"                  | see chart on p. 2            | 16                                    | 213 685  |
|   |              | 70                               | RC 1/2"                  |                              | 16                                    | 213 686  |
|   | 20           | 50                               | RC 3/4"                  |                              | 16                                    | 213 687  |
|   |              | 70                               | RC 3/4"                  |                              | 16                                    | 213 688  |
|   | 25           | 70                               | RC 1"                    |                              | 16                                    | 213 689  |
|   | 32           | 70                               | RC 1 1/4"                |                              | 16                                    | 213 690  |
|   | 40           | 70                               | RC 1 1/2"                |                              | 16                                    | 213 691  |
|   | 50           | 70                               | RC 2"                    |                              | 16                                    | 188 679  |
|   |              | 90                               | RC 2 1/2"                |                              | 14                                    | 239 466  |
|   | 65           | 90                               | RC 2 1/2"                |                              | 16 (15*)                              | 239 481  |
|   |              | 130                              | RC 2 1/2"                |                              |                                       | 239 481  |

\* acc. to the Pressure Equipment Directive 97/23 / EC for compressible fluids in Group 1 (hazardous gases and vapors in accordance with Article 3, Section 1.3, letter a, first dash)

**i** Further versions on request

 Control function  
I (double-acting)

**Technical data angle seat valve Type 2100 flow direction above the seat** (for gases and steam)



**Attention!**

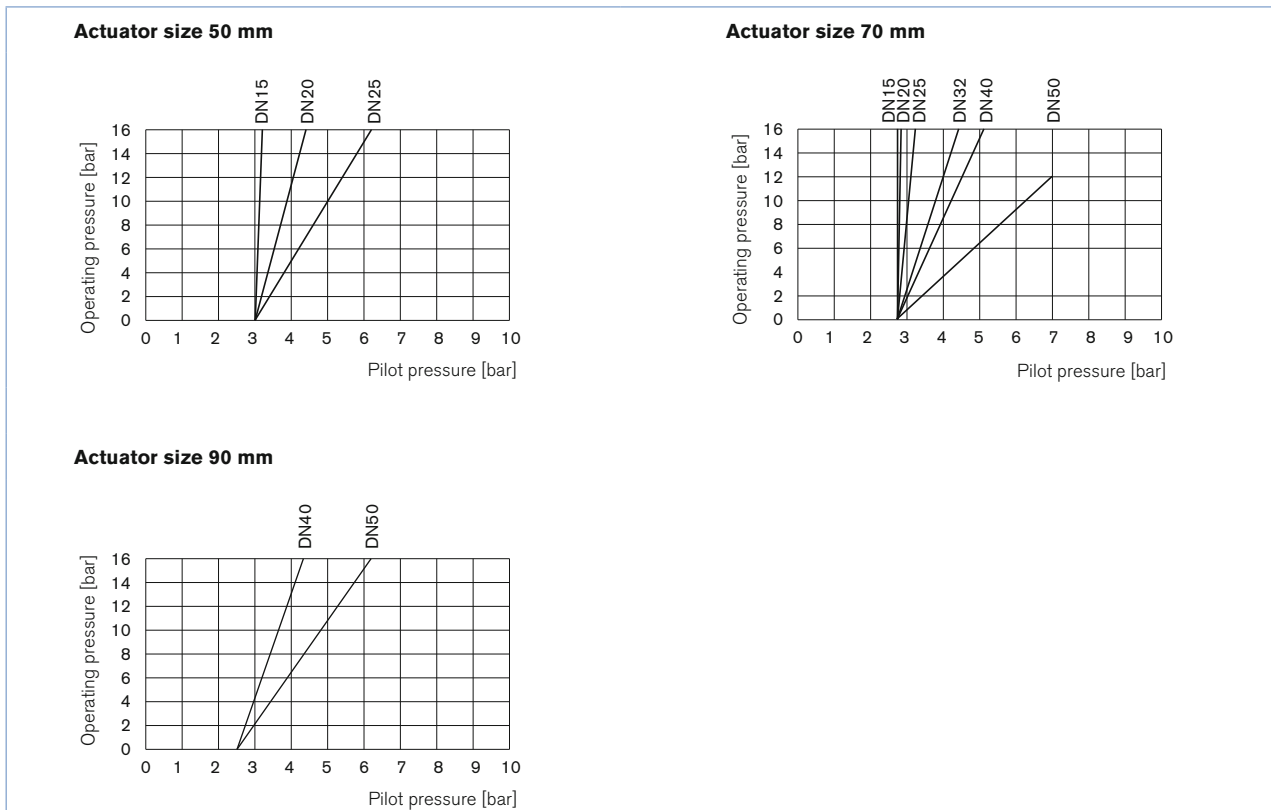
Valves with flow above the seat are only conditionally usable for liquid medium. There is a danger of waterhammer!

| Orifice [mm] | Actuator size [mm] | Kv value water (m <sup>3</sup> /h) | Operating pressure up to +185°C CFA [bar] |
|--------------|--------------------|------------------------------------|---|
| 15           | 50                 | 5                                  | 16  |
|              | 70                 | 5.1                                | 16  |
| 20           | 50                 | 10                                 | 16  |
|              | 70                 | 12                                 | 16  |
| 25           | 50                 | 15                                 | 16  |
|              | 70                 | 19                                 | 16  |
| 32           | 70                 | 28                                 | 16  |
| 40           | 70                 | 38                                 | 16  |
|              | 90                 | 40                                 | 16  |
| 50           | 70                 | 50                                 | 12  |
|              | 90                 | 55                                 | 16  |

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

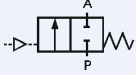
**Pressure valves [bar]:** Overpressure to the atmospheric pressure

**Pressure charts with control function A and flow direction above the seat**

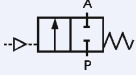


## Ordering chart Type 2100 flow direction above the seat (for gases and steam)

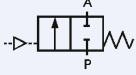
## G threaded port, flow direction above the seat

| Control function   | Orifice (mm) | Actuator size $\varnothing$ [mm] | Threaded port connection | Minimum pilot pressure [bar] | Operating pressure up to +185°C [bar] | Item no. | Item no. certified Atex II 2GD Mechanical |
|--|--------------|----------------------------------|--------------------------|------------------------------|---------------------------------------|----------|---|
| <b>A</b> 2/2-way valve.<br>NC<br> | 15           | 50                               | G 1/2"                   | see chart on p. 5            | 16                                    | 213 628  | 259 567                                   |
|  |              | 70                               | G 1/2"                   |                              | 16                                    | 213 629  | 259 568                                   |
|  | 20           | 50                               | G 3/4"                   |                              | 16                                    | 213 630  | 259 569                                   |
|  |              | 70                               | G 3/4"                   |                              | 16                                    | 213 631  | 259 571                                   |
|  | 25           | 50                               | G 1"                     |                              | 16                                    | 213 632  | 259 573                                   |
|  |              | 70                               | G 1"                     |                              | 16                                    | 213 633  | 259 575                                   |
|  | 32           | 70                               | G 1 1/4"                 |                              | 16                                    | 213 634  | 259 576                                   |
|  |              | 40                               | 70                       |                              | G 1 1/2"                              | 16       | 213 635                                   |
|  | 90           |                                  | 50                       |                              | G 1 1/2"                              | 16       | 213 636                                   |
|  |              | G 2"                             |                          |                              | 12                                    | 175 115  | 259 579                                   |
|  | G 2"         | 16                               | 175 116                  |                              | 259 580                               |          |   |

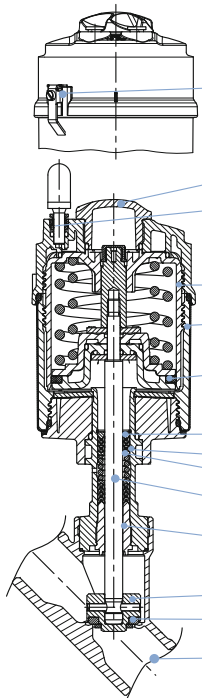
## NPT threaded port, flow direction above the seat

| Control function  | Orifice (mm) | Actuator size $\varnothing$ [mm] | Threaded port connection | Minimum pilot pressure [bar] | Operating pressure up to +185°C [bar] | Item no. |
|---|--------------|----------------------------------|--------------------------|------------------------------|---------------------------------------|----------|
| <b>A</b> 2/2-way valve.<br>NC<br> | 15           | 50                               | NPT 1/2"                 | see chart on p. 5            | 16                                    | 213 652  |
|   |              | 70                               | NPT 1/2"                 |                              | 16                                    | 213 653  |
|   | 20           | 50                               | NPT 3/4"                 |                              | 16                                    | 213 654  |
|   |              | 70                               | NPT 3/4"                 |                              | 16                                    | 213 655  |
|   | 25           | 50                               | NPT 1"                   |                              | 16                                    | 213 656  |
|   |              | 70                               | NPT 1"                   |                              | 16                                    | 213 657  |
|   | 32           | 70                               | NPT 1 1/4"               |                              | 16                                    | 213 658  |
|   | 40           | 70                               | NPT 1 1/2"               |                              | 16                                    | 213 659  |
|   | 50           | 70                               | NPT 2"                   |                              | 12                                    | 188 649  |

## RC threaded port, flow direction above the seat

| Control function   | Orifice (mm) | Actuator size $\varnothing$ [mm] | Threaded port connection | Minimum pilot pressure [bar] | Operating pressure up to +185°C [bar] | Item no. |
|--|--------------|----------------------------------|--------------------------|------------------------------|---------------------------------------|----------|
| <b>A</b> 2/2-way valve.<br>NC<br> | 15           | 50                               | RC 1/2"                  | see chart on p. 5            | 16                                    | 213 676  |
|  |              | 70                               | RC 1/2"                  |                              | 16                                    | 213 677  |
|  | 20           | 50                               | RC 3/4"                  |                              | 16                                    | 213 678  |
|  |              | 70                               | RC 3/4"                  |                              | 16                                    | 213 679  |
|  | 25           | 50                               | RC 1"                    |                              | 16                                    | 213 680  |
|  |              | 70                               | RC 1"                    |                              | 16                                    | 213 681  |
|  | 32           | 70                               | RC 1 1/4"                |                              | 16                                    | 213 682  |
|  | 40           | 70                               | RC 1 1/2"                |                              | 16                                    | 213 683  |
|  | 50           | 70                               | RC 2"                    |                              | 12                                    | 188 672  |

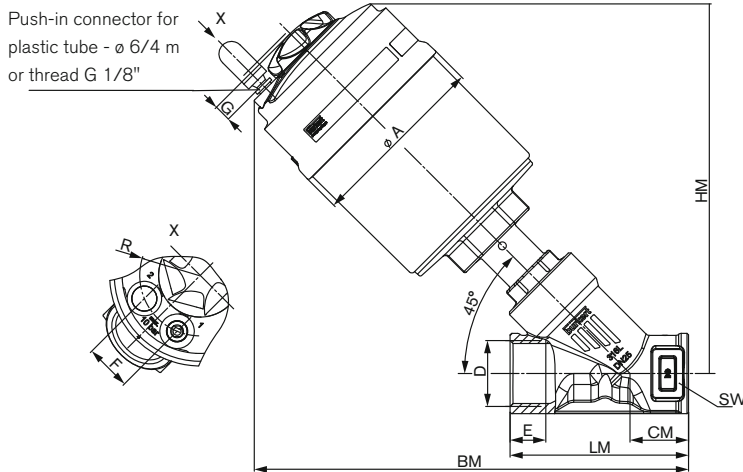
Materials angle seat valve Type 2100



|           |                                   |  |
|-----------|-----------------------------------|--|
| <b>A</b>  | <b>Ground terminal</b>            | Stainless steel 1.4301/1.4305<br><i>Only for the ATEX version</i>                            |
| <b>1</b>  | <b>Optical position indicator</b> | Transparent cap polysulfone PSU  |
| <b>2</b>  | <b>Pilot air ports</b>            | Push-in connector PP (standard)<br><i>On request:</i><br>Thread G1/8" stainless steel 1.4305 |
| <b>3</b>  | <b>Actuator</b>                   | PPS  |
| <b>4</b>  | <b>Cover</b>                      | Stainless steel 1.4561 (316Ti)   |
| <b>5</b>  | <b>Piston seal</b>                | FKM  |
| <b>6</b>  | <b>Spring</b>                     | Stainless steel 1.4310   |
| <b>7</b>  | <b>Pipe</b>                       | Stainless steel 1.4401 (316)/1.4404 (316L)   |
| <b>8</b>  | <b>Spindle packing</b>            | PTFE   |
| <b>9</b>  | <b>Spindle</b>                    | Stainless steel 1.4401 (316)/1.4404 (316L)   |
| <b>10</b> | <b>Spindle guide</b>              | PEEK   |
| <b>11</b> | <b>Swivel plate</b>               | Stainless steel 1.4401 (316)/1.4404 (316L)   |
| <b>12</b> | <b>Seals</b>                      | PTFE   |
| <b>13</b> | <b>Valve body</b>                 | Stainless steel 316L   |

Lubricants for spindle packing and actuator are classified according NSF H1

Dimensions angle seat valve Type 2100 [mm]



Push-in connector for plastic tube -  $\phi$  6/4 mm or thread G 1/8"

| Orifice [mm] | Actuator size [mm] | $\phi$ A | F    | G   | R     | HM  | BM  | CM   | LM  | SW | G D     | E  | NPT D     | E    | Rc D     | E    |
|--------------|--------------------|----------|------|-----|-------|-----|-----|------|-----|----|---------|----|-----------|------|----------|------|
| 15           | 50                 | 64.5     | 19.8 | 6.1 | 17.15 | 158 | 185 | 24   | 65  | 27 | G 1/2   | 14 | NPT 1/2   | 13.7 | RC 1/2   | 13.2 |
|              | 70                 | 91       | 23.3 | 8.5 | 30.5  | 173 | 201 |      |     |    |         |    |           |      |          |      |
| 20           | 50                 | 64.5     | 19.8 | 6.1 | 17.15 | 166 | 195 | 27   | 75  | 34 | G 3/4   | 16 | NPT 3/4   | 14   | RC 3/4   | 14.5 |
|              | 70                 | 91       | 23.3 | 8.5 | 30.5  | 181 | 211 |      |     |    |         |    |           |      |          |      |
| 25           | 50                 | 64.5     | 19.8 | 6.1 | 17.15 | 172 | 204 | 29.5 | 90  | 41 | G 1     | 18 | NPT 1     | 16.8 | RC 1     | 16.8 |
|              | 70                 | 91       | 23.3 | 8.5 | 30.5  | 187 | 220 |      |     |    |         |    |           |      |          |      |
| 32           | 70                 | 91       | 23.3 | 8.5 | 30.5  | 195 | 235 | 36   | 110 | 50 | G 1 1/4 | 16 | NPT 1 1/4 | 17.3 | RC 1 1/4 | 19.1 |
|              | 90                 | 120      | 23.3 | 8.5 | 30.5  | 240 | 277 |      |     |    |         |    |           |      |          |      |
| 40           | 70                 | 91       | 23.3 | 8.5 | 30.5  | 197 | 236 | 35   | 120 | 55 | G 1 1/2 | 18 | NPT 1 1/2 | 17.3 | RC 1 1/2 | 19.1 |
|              | 90                 | 120      | 23.3 | 8.5 | 30.5  | 242 | 278 |      |     |    |         |    |           |      |          |      |
| 50           | 130                | 159      | 23.3 | 8.5 | 30.5  | 293 | 328 | 45   | 150 | 70 | G 2     | 24 | NPT 2     | 17.6 | RC 2     | 23.4 |
|              | 70                 | 91       | 23.3 | 8.5 | 30.5  | 214 | 262 |      |     |    |         |    |           |      |          |      |
| 65           | 90                 | 120      | 23.3 | 8.5 | 30.5  | 255 | 301 | 57   | 185 | 85 | G 2 1/2 | 26 | NPT 2 1/2 | 23.7 | RC 2 1/2 | 26.7 |
|              | 130                | 159      | 23.3 | 8.5 | 30.5  | 306 | 351 |      |     |    |         |    |           |      |          |      |
|              |                    |          |      |     |       |     |     |      |     |    |         |    |           |      |          |      |



**2100 threaded  
System On/Off  
ELEMENT 8801-YE**








**Ordering information for valve system On/Off ELEMENT Type 8801-YE**

A **valve system On/Off ELEMENT Type 8801-YE** consists of a **angle seat valve Type 2100** and a valve actuation system control head **Type 8691/8695** or a pneumatic control unit **Type 8690/8697** (see separate datasheets).

For the configuration of further valve systems please use the "Request for quotation" on p. 14-15.

[go to page](#)

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

|   |  |  |  |  |
|---|--|--|--|--|
| <p><b>Angle seat valve Type 2100<br/>Threaded</b></p>                             | <p><b>Control Head / Feedback</b></p>  |  | <p><b>Control Head / Feedback</b></p>  |  |
|   | Type 8691  | Type 8695  | Type 8690  | Type 8697  |
|  |   |   |   |   |
| <p><b>Valve System On/Off ELEMENT</b></p>   |  |  |  |  |
|   |  |  |  |  |
|   | <p><b>Type 8801-YE-H<br/>2100 + 8691</b></p>                                       | <p><b>Type 8801-YE-M<br/>2100 + 8695</b></p>                                       | <p><b>Type 8801-YE-K<br/>2100 + 8690</b></p>   | <p><b>Type 8801-YE-U<br/>2100 + 8697</b></p>   |

*A detailed description of the control heads and pneumatic control units is on the next page. →*

**Ordering information for valve system On/Off ELEMENT Type 8801-YE, *continued***

**Control Head / Feedback**



More info.



More info.

**Type 8691**

Actuator size 70/90/130

**Type 8695**

Actuator size 50

The Control Head Type 8691/ 8695 is optimised for integrated mounting on the 21XX process valve series. The registration of the valve end position is done through a contactless analog position sensor, which automatically recognises and saves the valve end position through the Teach function when starting up. The integrated pilot valve controls single or double-acting actuators. The status of the valve is shown through high power coloured LEDs.

**Features**

- High power coloured Status-LEDs
- Contactless inductive position sensor
- Pilot valve with manual override
- Teach function for automatic registration of valve positions
- Hygienic stainless steel design
- Easy to clean chemically resistant housing featuring IP65 / IP67, 4X Rating
- AS-Interface or DeviceNet Fieldbus communication

**Benefits**

- Easy and safe Start-up through Teach function
- Easy process monitoring and error detection through clearly visible high-power coloured LEDs
- High plant availability due to prolonged actuator life boosted by spring chamber ventilation
- Minimised space requirement in the plant piping for more flexibility in plant design

**Pneumatic Control Unit / Feedback**



More info.



More info.

**Type 8690**

Actuator size 70/90/130

**Type 8697**

Actuator size 50

The pneumatic control unit Type 8697/8690 is optimised for integrated mounting on the 21XX process valve series. Mechanical or inductive limit switches register the position of the valve. The integrated pilot valve controls single or double-acting (8690) actuators.

**Features**

- Visual position indicator
- Mechanical or inductive limit switches for end position registering
- Pilot valve with manual override
- Compact design
- Easy to clean chemically resistant housing featuring IP65 / IP67, 4X Rating
- Optional intrinsically safe version acc. to ATEX

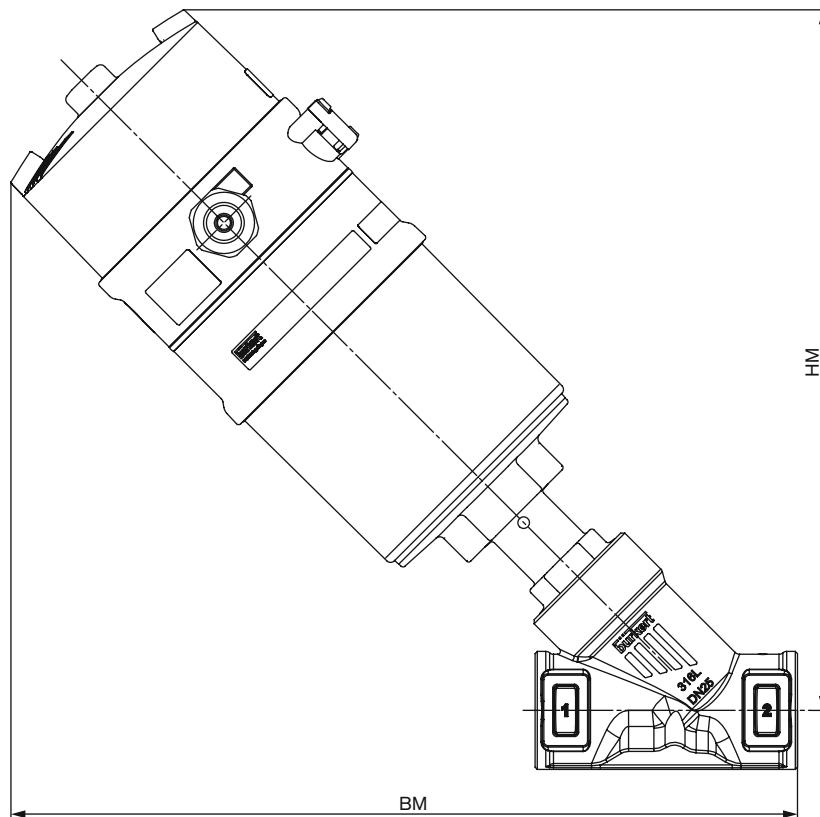
**Benefits**

- Easy and safe Start-up through Teach function (Type 8697)
- High level of signal reliability thanks to self adjusting limit switches
- Minimised space requirement in the plant piping for more flexibility in plant design

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

**Dimensions for valve system On/Off ELEMENT Type 8801-YE [mm]**

Dimensions valve system On/Off ELEMENT Type 8801-YE-K (with pneumatic control unit Type 8690)

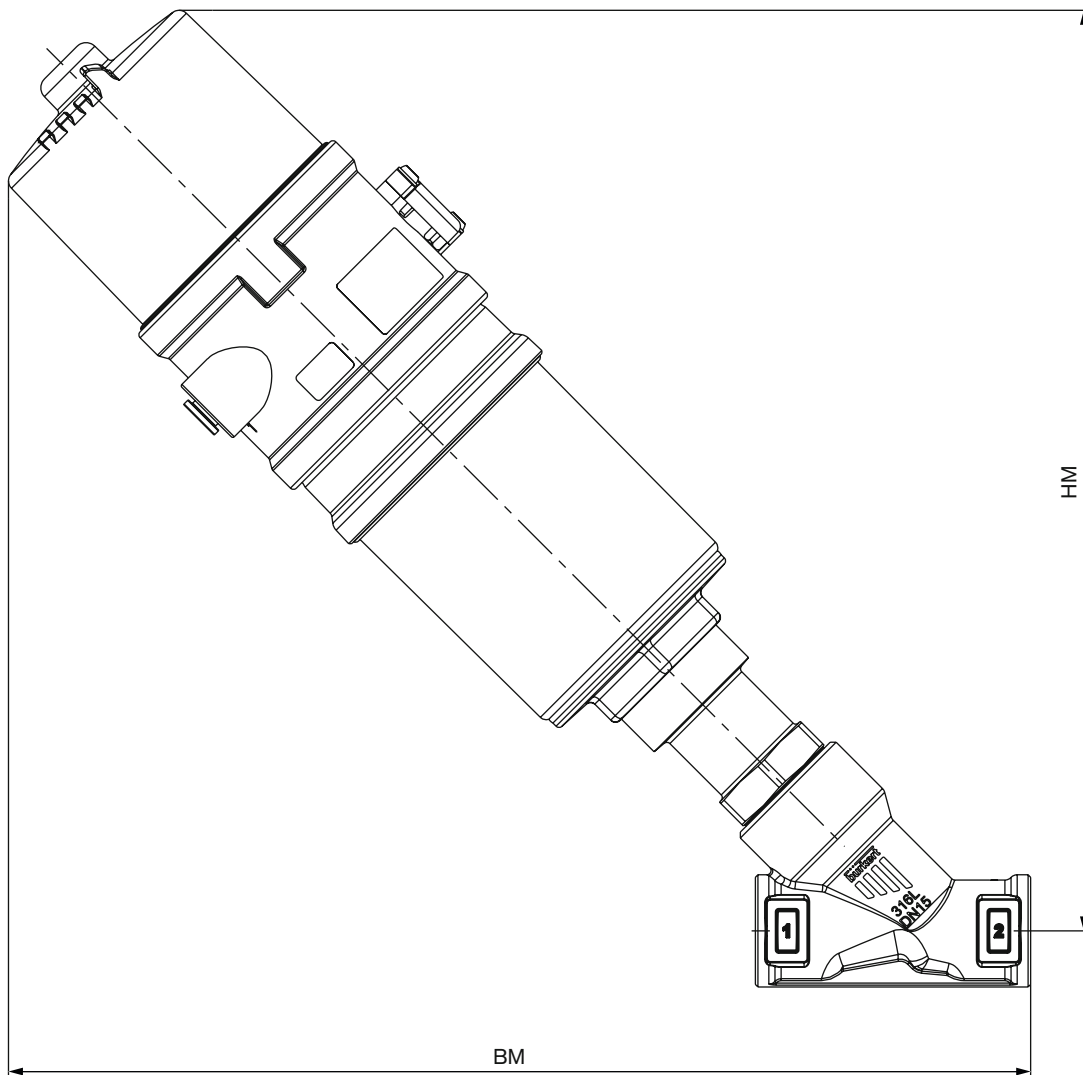


| Orifice [mm] | Actuator size [mm] | HM  | BM  |
|--------------|--------------------|-----|-----|
| 15           | 70                 | 227 | 255 |
| 20           | 70                 | 235 | 265 |
| 25           | 70                 | 241 | 274 |
| 32           | 70                 | 249 | 289 |
|              | 90                 | 292 | 329 |
| 40           | 70                 | 251 | 290 |
|              | 90                 | 294 | 330 |
|              | 130                | 331 | 366 |
| 50           | 70                 | 268 | 316 |
|              | 90                 | 307 | 353 |
|              | 130                | 344 | 389 |
| 65           | 90                 | 322 | 380 |
|              | 130                | 359 | 416 |

Further dimensions see p. 7

Dimensions for valve system On/Off ELEMENT Type 8801-YE [mm]

Dimensions valve system On/Off ELEMENT Type 8801-YE-K (with pneumatic control unit Type 8697)

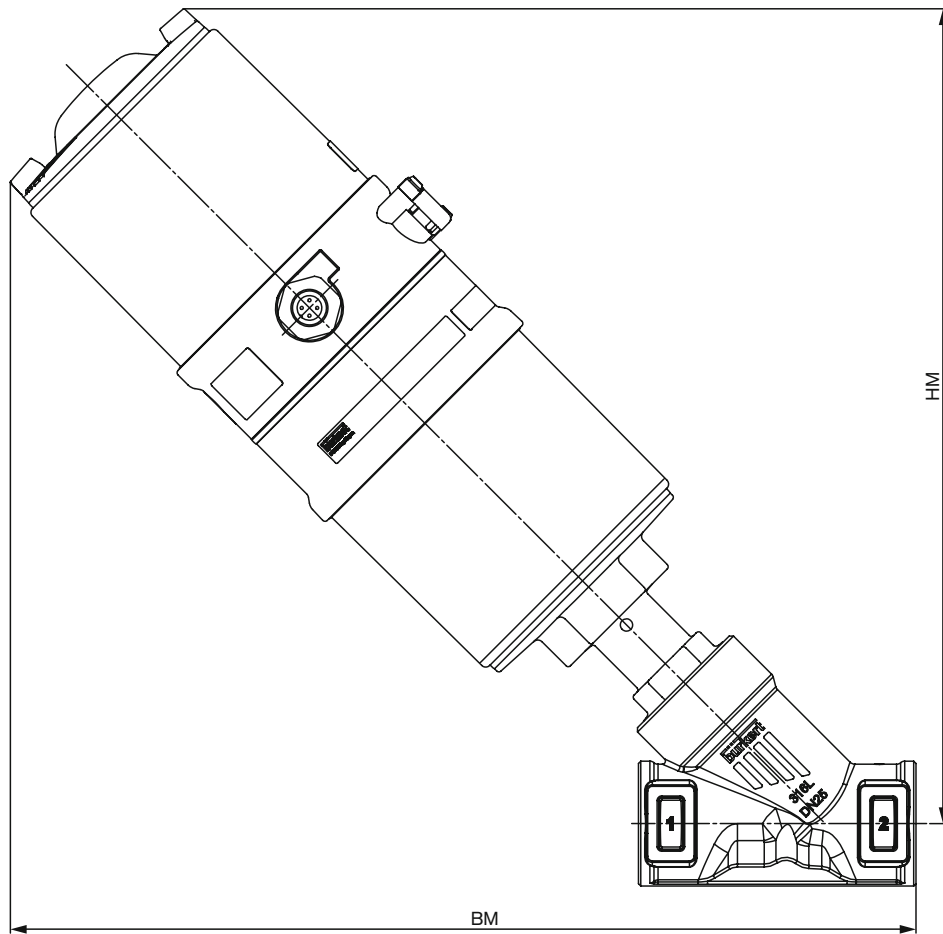


| DN [mm] | Actuator size [mm] | HM [mm] | BM [mm] |
|---------|--------------------|---------|---------|
| 15      | 50                 | 218     | 242     |
| 20      |                    | 231     | 261     |
| 25      |                    | 225     | 252     |

Further dimensions see p. 7

**Dimensions for valve system On/Off ELEMENT Type 8801-YE [mm], *continued***

Dimensions valve system On/Off ELEMENT Type 8801-YE-H (*with control head Type 8691*)

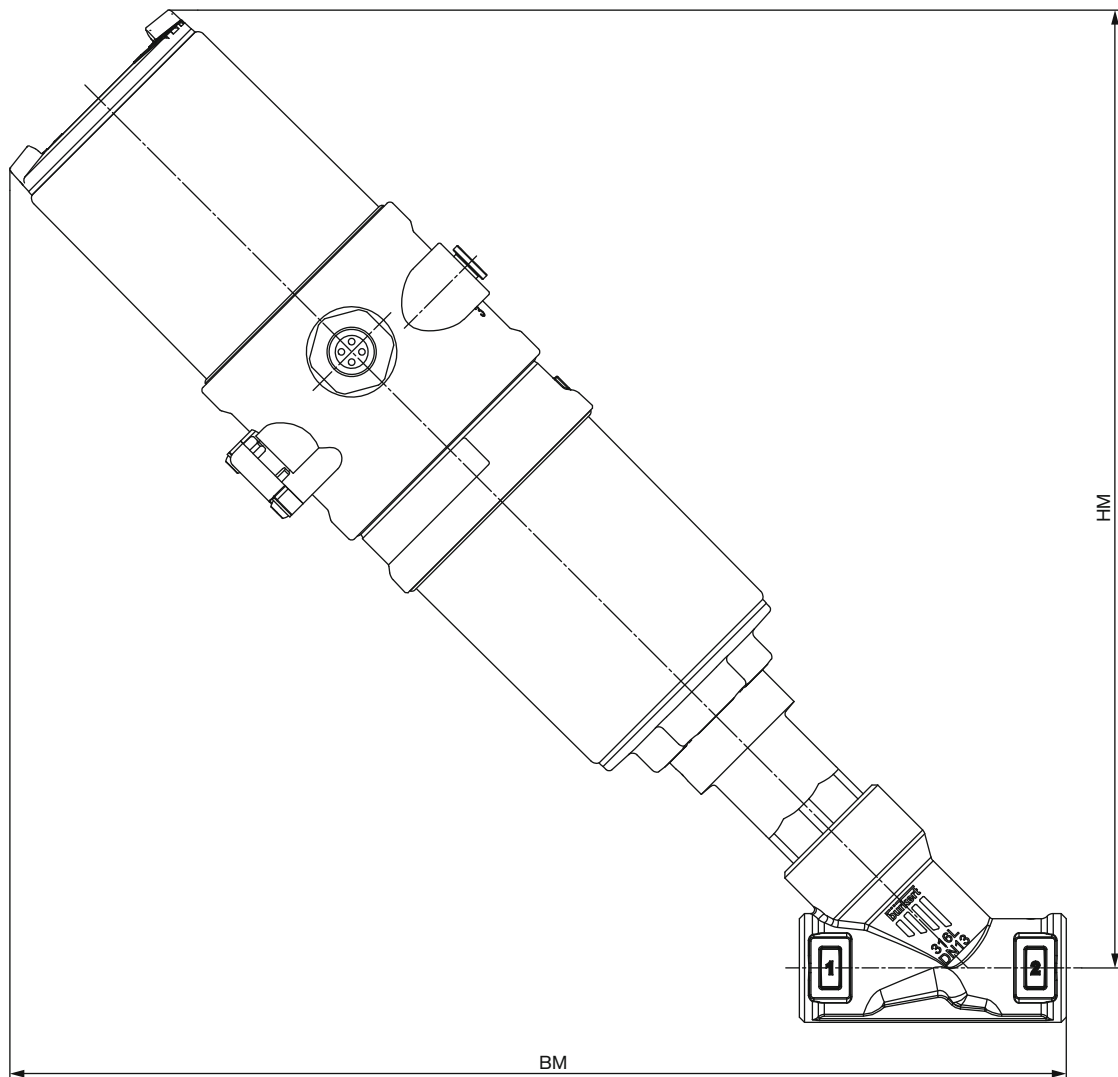


| Orifice [mm] | Actuator size [mm] | HM  | BM  |
|--------------|--------------------|-----|-----|
| 15           | 70                 | 251 | 279 |
| 20           | 70                 | 259 | 289 |
| 25           | 70                 | 265 | 298 |
| 32           | 70                 | 273 | 313 |
|              | 90                 | 316 | 353 |
| 40           | 70                 | 275 | 314 |
|              | 90                 | 318 | 354 |
|              | 130                | 355 | 390 |
| 50           | 70                 | 292 | 340 |
|              | 90                 | 331 | 377 |
|              | 130                | 368 | 413 |
| 65           | 90                 | 346 | 404 |
|              | 130                | 383 | 440 |

Further dimensions see p. 7

Dimensions for valve system On/Off ELEMENT Type 8801-YE [mm], *continued*

Dimensions valve system On/Off ELEMENT Type 8801-YE-M (with control head Type 8695)



| Orifice [mm] | Actuator size [mm] | HM  | BM  |
|--------------|--------------------|-----|-----|
| 15           | 50                 | 234 | 261 |
| 20           | 50                 | 242 | 271 |
| 25           | 50                 | 248 | 280 |

Further dimensions see p. 7

**2100 threaded  
System On/Off  
ELEMENT 8801-YE**

**bürkert**

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

**Valve system On/Off ELEMENT Type 8801-YE – 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**

|   |                                 |   |
|---|---------------------------------|---|
| Pipe line                               | DN <input type="text"/>         | PN <input type="text"/>                                     |
| Pipe material                           | <input type="text"/>            |   |
| <input type="checkbox"/> Process medium | <input type="text"/>            |   |
| <input type="checkbox"/> Type of media  | <input type="checkbox"/> Liquid | <input type="checkbox"/> Steam <input type="checkbox"/> Gas |

**Valve features**

|   |   |   |   |
|---|---|---|---|
| Seal material   | <input type="checkbox"/> PTFE                 | <input type="checkbox"/> NBR              | <input type="checkbox"/> Other <input type="text"/> |
| Nominal pressure  | PN <input type="text"/>                       |   |   |
| Orifice   | DN <input type="text"/>                       |   |   |
| Type of connection  | <input type="checkbox"/> Threaded             | <input type="checkbox"/> Welded           | <input type="checkbox"/> Clamp                      |
| Standard connection   | <input type="checkbox"/> ISO                  | <input type="checkbox"/> DIN              | <input type="checkbox"/> Other <input type="text"/> |
| Body material selection with welded connection acc. to EN ISO 1127/ISO 4200 and DIN 11850 | <input type="checkbox"/> Stainless steel 316L |   |   |
| Control function  | <input type="checkbox"/> NC <sup>1)</sup>     | <input type="checkbox"/> NO <sup>1)</sup> | <input type="checkbox"/> Double-acting              |
| Pilot pressure  | <input type="text"/> min.                     | <input type="text"/> max.                 |   |
| Atex II 2GD Mechanical  | <input type="checkbox"/>                      |   |   |
| Please specify item no. (if known):   | <input type="text"/>                          |   |   |









<sup>1)</sup>NC: normally closed by spring action; NO: normally open by spring action

Continued on next page →

**Valve system On/Off ELEMENT Type 8801-YE – request for quotation, *continued***

**Automation unit features**

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

| Control Head / Feedback  |  | Pneumatic Control Unit / Feedback  |  |
|--|--|--|--|
| <input type="checkbox"/> <b>Type 8691</b> <br>For actuator size 70/90/130<br>  | <input type="checkbox"/> <b>Type 8695</b> <br>For actuator size 50<br> | <input type="checkbox"/> <b>Type 8690</b> <br>For actuator size 70/90/130<br>  | <input type="checkbox"/> <b>Type 8697</b> <br>For actuator size 50<br> |
| <ul style="list-style-type: none"> <li>Inductive position sensor with automatic Teach function</li> <li>Coloured high power LEDs</li> <li>With/without pilot valve for single or double-acting actuators</li> <li>Fieldbus communication</li> <li>Hygienic stainless steel design</li> </ul> |  | <ul style="list-style-type: none"> <li>visual status indicator</li> <li>Micro- or proximity switches for end position feedback</li> <li>With/ without pilot valve for single or double-acting actuators</li> <li>Optional intrinsically safe version acc. to ATEX / IECEx</li> </ul>   |  |
| <b>Pneumatic function</b><br><input type="checkbox"/> Single-acting<br><input type="checkbox"/> Double-acting<br><input type="checkbox"/> Without pilot valve  | <b>Electrical connection</b><br><input type="checkbox"/> Cable gland<br><input type="checkbox"/> M12 connector   | <b>Pneumatic function</b><br><input type="checkbox"/> Single-acting<br><input type="checkbox"/> Double-acting (only with 8690)<br><input type="checkbox"/> Without pilot valve   | <b>Number of Position feedback switches</b><br><input type="checkbox"/> 1x<br><input type="checkbox"/> 2x  |
| <b>Communication</b><br><input type="checkbox"/> AS-Interface<br><input type="checkbox"/> DeviceNet<br><input type="checkbox"/> without  | <b>Approvals</b><br><input type="checkbox"/> ATEX cat. 3GD, IECEx<br><input type="checkbox"/> without  | <b>Position feedback switches</b><br><input type="checkbox"/> Micro-switch 24V DC<br><input type="checkbox"/> Micro-switch 50 – 225 V DC/AC (only 8697)<br><input type="checkbox"/> Inductive switch 3-wire PNP<br><input type="checkbox"/> Inductive switch 2-wire NAMUR<br><input type="checkbox"/> Inductive switch 2-wire 24V DC<br><input type="checkbox"/> without | <b>Electrical connection</b><br><input type="checkbox"/> Cable gland<br><input type="checkbox"/> M12 connector   |
|  |  |  | <b>Approvals</b><br><input type="checkbox"/> ATEX cat. 3GD, IECEx<br><input type="checkbox"/> ATEX cat. 2DG, IECEx<br><input type="checkbox"/> without   |

**Certifications**

- Attestation of compliance with the order EN-ISO 10204 2.1 (Item-No. 440 788)
- Test report EN-ISO 10204 2.2 (Item-No. 803 722)
- Certification of Conformity for Raw Material EN-ISO 10204 3.1 (Included in delivery)
- EN161 (European Gas Device guideline)
- FDA and USP compliance

**Comment /sketch**

|  |
|--|
|  |
|  |
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|  |
|  |

\*To find your nearest Bürkert facility, click on the orange box → 

In case of special application conditions, please consult for advice.

Subject to alteration.  
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