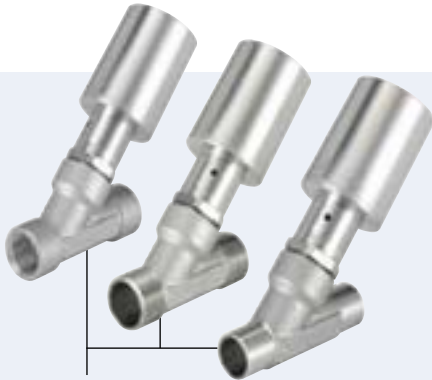


## 2/2-way Angle-Seat Valve 32mm Actuator for media up to +180°C DN10, 15



- Small, compact design
- Actuator and valve body in stainless steel
- Normally closed or open actuators
- Available with flow direction below seat
- Actuator concept for block mounting

Type 2000 can be combined with...



**SY01MD**

Multifunctional block



**Type 8640**

AirLINE Quick



**Type 8644**

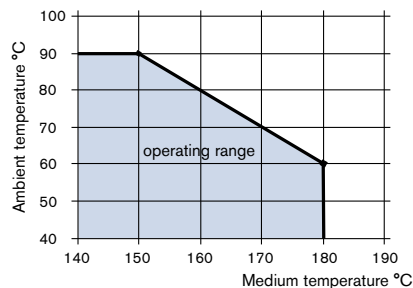
AirLINE Quick

The externally piloted angle-seat valve is operated with a single acting piston actuator.

The pneumatic piston actuator is constructed from stainless steel and incorporates a proven self adjusting packing gland, to ensure high media leak tightness. The 2/2-way body is made from a high quality stainless steel casting, with a flow optimized design enabling high flow rates.

For customized solutions in particular, a modular housing is available in a compact design, with mixing functions, distribution functions and multi-way functions.

<sup>1)</sup> **Note:** For 2000 INOX the combination of max. medium temperature and max. ambient temperature is as shown in the following chart



| Technical data                                 |  |
|--|--|
| <b>Orifice</b>                                 | DN 10, 15  |
| <b>Body materials</b>                          | Cast Stainless steel   |
| <b>Seal material</b>                           | PTFE   |
| <b>Actuator material</b>                       | Stainless steel 316L   |
| <b>Medium</b>                                  | Water, alcohol, oils, fuels, hydraulic fluids, salt solution, alkali solutions, organic solvents, steam, air and neutral gases           |
| <b>Viscosity</b>                               | Max. 600 mm <sup>2</sup> /s  |
| <b>Packing gland</b><br>(with silicone grease) | PTFE V-rings with spring compensation  |
| <b>Medium temperature<sup>1)</sup></b>         | 0 up to +180 °C  |
| <b>Ambient temperature<sup>1)</sup></b>        | 0 up to +60 °C   |
| <b>Control medium</b>                          | Neutral gases, air   |
| <b>Min. / max. pilot pressure<sup>2)</sup></b> | 5.5 - 10 bar   |
| <b>Medium pressure</b>                         | from vacuum to 16 bar  |
| <b>Kv value water</b>                          | 2.4 m <sup>3</sup> /h (DN10) and 4.0 m <sup>3</sup> /h (DN 15)   |
| <b>Port connection</b>                         | G and NPT 3/8 and 1/2 - threaded ports<br>G 1/2 - external thread<br>Weld end acc. EN ISO 1127/ISO 4200,<br>DIN 11850 Series 2, ASME BPE |
| <b>Pilot air port</b>                          | M5 (Screw-in fitting recommended)  |
| <b>Control function</b>                        | SF-A (normally closed by spring action)<br>SF-B (normally opened by spring action) on request  |

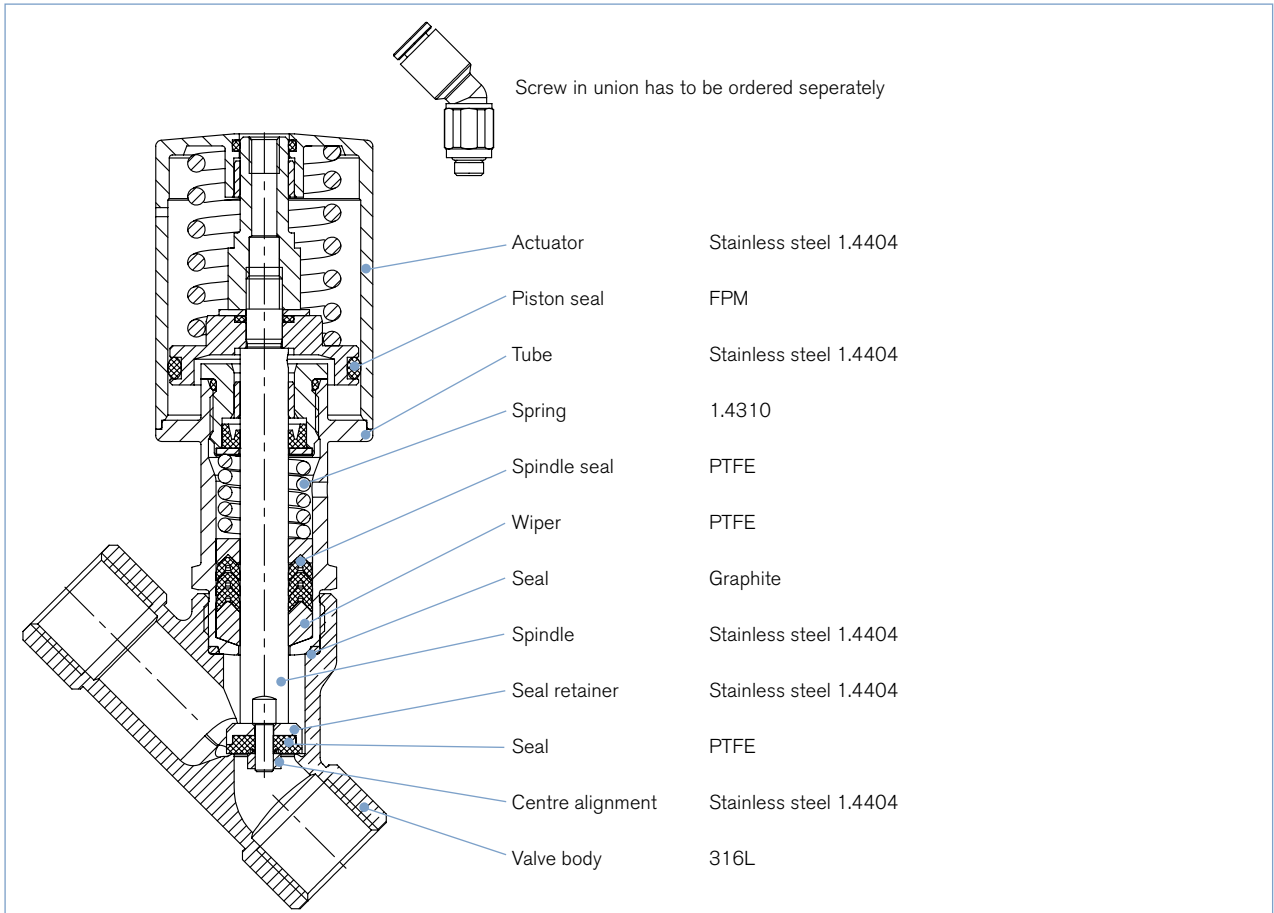
<sup>2)</sup> lower pilot pressure on reduced medium temperature on request

Technical data

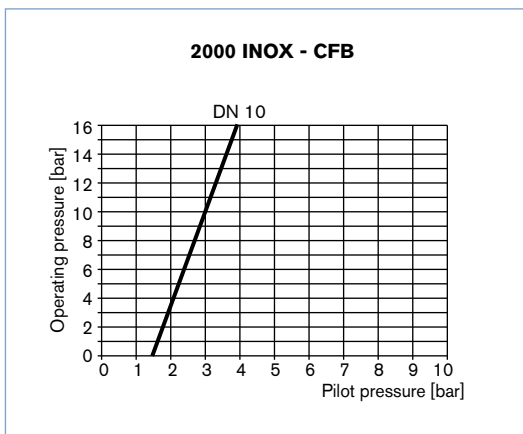
| Orifice [mm] | Actuator size [mm] | Kv-value water (m <sup>3</sup> /h) | Minimum pilot pressure <sup>1)</sup> CFA [bar] | Max. operating pressure to +180° |           | Weight [kg] |
|--------------|--------------------|------------------------------------|--|----------------------------------|-----------|-------------|
|              |                    |                                    |  | CFA [bar]                        | CFB [bar] |             |
| 10           | 32                 | 2.4                                | 5.5  | 16                               | 16        | 0.4         |
| 15           | 32                 | 4.0                                | 5.5  | 11                               | -         | 0.6         |

<sup>1)</sup> lower pilot pressure on reduced medium temperature on request

Materials Type 2000 INOX

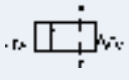


Pressure chart with control function B and flow direction below seat



Ordering chart (other versions on request)

Flow direction below seat

| Circuit function   | Port connection               | Orifice [mm] | Actuator size Ø [mm] | $k_{vs}$ -value water [m³/h] | Minimum pilot pressure [bar] | Max. operating pressure up to +180 °C [bar] | Item no. |
|--|-------------------------------|--------------|----------------------|------------------------------|------------------------------|---|----------|
| <b>A</b> 2/2-way valve normally closed by spring action<br> | G 3/8                         | 10           | 32                   | 2.4                          | 5.5                          | 16  | 210 644  |
|  | NPT 3/8                       | 10           | 32                   | 2.4                          | 5.5                          | 16  | 218 145  |
|  | Rc 3/8                        | 10           | 32                   | 2.4                          | 4.0                          | 10  | 226 632  |
|  | external thread G 1/2         | 10           | 32                   | 2.4                          | 5.5                          | 16  | 218 148  |
|  | EN ISO 1127 DN10 (17.2 x 1.6) | 10           | 32                   | 2.4                          | 5.5                          | 16  | 215 485  |
|  | DIN 11850R2 DN10 (13 x 1.5)   | 10           | 32                   | 2.4                          | 5.5                          | 16  | 218 146  |
|  | ASME BPE 1/2 (12.7 x 1.65)    | 10           | 32                   | 2.4                          | 5.5                          | 16  | 218 147  |
|  | actuator without body         | 10           | 32                   | 2.4                          | 5.5                          | 16  | 212 149  |
|  | G 1/2                         | 15           | 32                   | 4.0                          | 5.5                          | 11  | 246 066  |
|  | NPT 1/2                       | 15           | 32                   | 4.0                          | 5.5                          | 11  | 246 067  |
|  | Rc 1/2                        | 15           | 32                   | 4.0                          | 5.5                          | 11  | 246 068  |
|  | EN ISO 1127 DN10 (21.3 x 1.6) | 15           | 32                   | 4.0                          | 5.5                          | 11  | 246 069  |
|  | DIN 11850R2 DN10 (19 x 1.5)   | 15           | 32                   | 4.0                          | 5.5                          | 11  | 246 070  |
|  | ASME BPE 1/2 (12.5 x 1.65)    | 15           | 32                   | 4.0                          | 5.5                          | 11  | 246 071  |
|  | actuator without body         | 15           | 32                   | 4.0                          | 5.5                          | 11  | 245 389  |

**i** Further versions on request

**Analyse**  
Oxygen version  
Assembly silicon, oil and fat-free

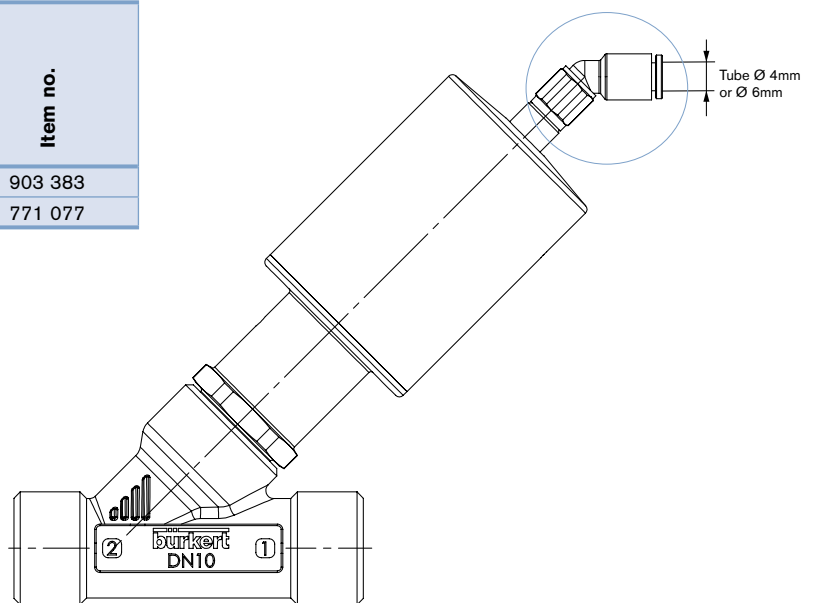
**Control function**  
Control function B opened by spring action

Ordering chart for accessories (not supplied as standard)

Angle screw-in fitting 45° has to be ordered separately.

| Description                               | Item no. |
|---|----------|
| Screw-in fitting <sup>1)</sup> M5 - Ø 4mm | 903 383  |
| Screw-in fitting <sup>1)</sup> M5 - Ø 6mm | 771 077  |

<sup>1)</sup>Version up to max. 60°C Ambient temperature  
higher temperatures - on request



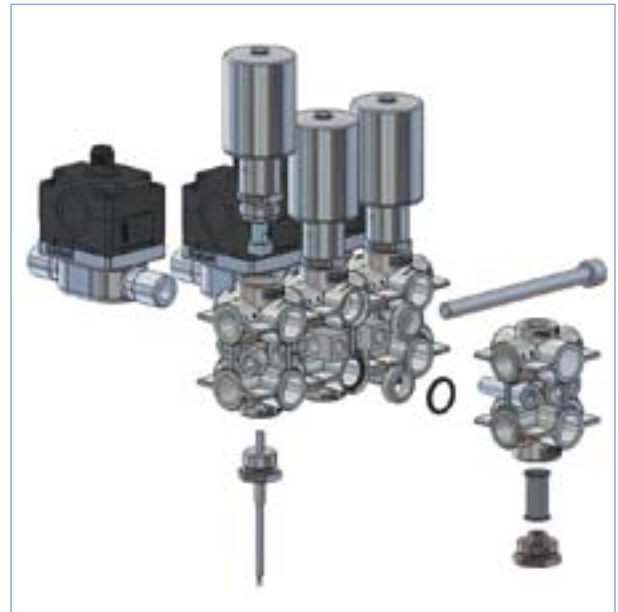
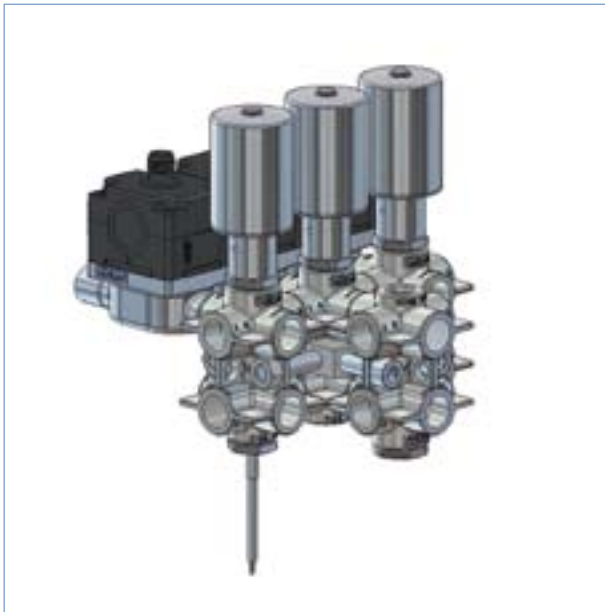
## Multifunction block SY01MD (only DN 10 available)

Modern valve solutions must consider; in addition to the normal process requirements e.g. temperature and pressure; influences such as the space available, and should be flexible and adaptable to meet the customer specific needs.

The modular block system is especially suited to this purpose, as it can be used to accommodate the most complex fluidic systems, whilst optimizing the smallest possible installed space.

The Multifunction Block Solution improves the inherent performance weaknesses associated with traditional interconnecting pipe assemblies. The Multifunction Block Solution distills existing interconnecting pipe solutions, removing unnecessary pipework, elbows and connections, whilst maintaining flexibility of internal gallery configurations. The aim is to improve the system performance overall where possible, by eliminating potential leak paths, reducing material mass, lowering component count and minimizing the overall space envelop. Added to this, the inherent flexibility of the design allows for the inclusion of fluid ancillaries such as strainers and checkvalves, for a complete fluid management system.

### System example



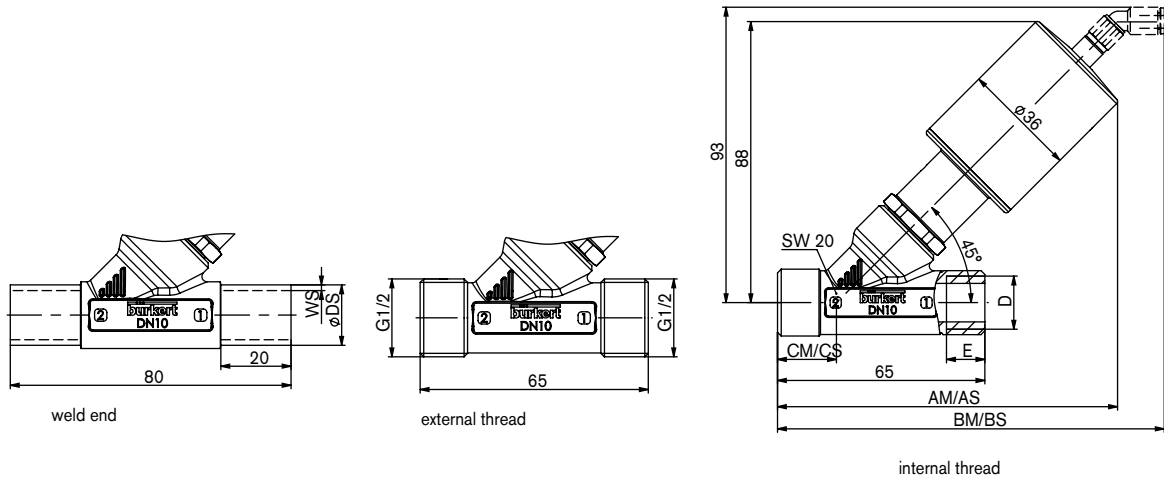
The Illustrations above show a 3-way distribution-system with flow rate and temperature measurement via the Bürkert flow sensor, Type 8011 and temperature sensor, Type TST001. The input is via an additional feed-in module with an integrated filter.

### The following basic functions are available using different block combinations.

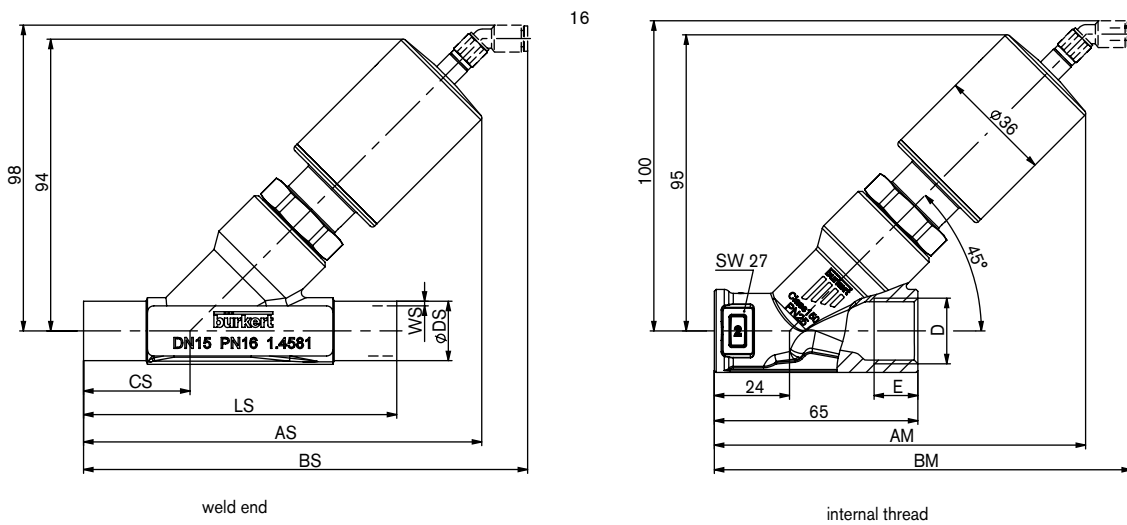
- Distribution system: Depending on the input, it could be shared by different users.
- Collection system: Depending on the different uses, the return flow could be collected
- Mixing system: Different mediums (e.g. hot water and cold water or a mix of different chemicals) could be mixed together and distributed to different users.
- Sensor integration: Sensors can be easily integrated in the supply or return flow to measure pressure or temperature.
- Integration of filters and check valves.

For configuration of your Block Solution please contact your nearest Bürkert office. <http://www.burkert.com>

Dimensions [mm]



| Body DN | All threaded bodies |     |     | Internal threaded body |    |            |      |           |      | Welded body       |     |     |                                 |     |              |     |          |      |
|---------|---------------------|-----|-----|------------------------|----|------------|------|-----------|------|-------------------|-----|-----|---------------------------------|-----|--------------|-----|----------|------|
|         | CM                  | AM  | BM  | G-thread               |    | NPT-thread |      | RC Thread |      | All welded bodies |     |     | ISO 4200 / Weld end EN ISO 1127 |     | DIN 11850 R2 |     | ASME BPE |      |
|         |                     |     |     | D                      | E  | D          | E    | D         | E    | CS                | AS  | BS  | ØDS                             | WS  | ØDS          | WS  | ØDS      | WS   |
| 10      | 19                  | 107 | 121 | G 3/8                  | 12 | NPT 3/8    | 10.3 | RC 3/8    | 10.1 | 26                | 115 | 129 | 17.2                            | 1.6 | 13           | 1.5 | 12.7     | 1.65 |



| Body DN | All threaded bodies |     | Internal threaded body |    |            |      |           |      | Welded body            |     |     |     |                                 |     |              |     |          |     |     |     |      |      |
|---------|---------------------|-----|------------------------|----|------------|------|-----------|------|------------------------|-----|-----|-----|---------------------------------|-----|--------------|-----|----------|-----|-----|-----|------|------|
|         | AM                  | BM  | G-thread               |    | NPT-thread |      | RC Thread |      | ISO 4200, DIN 11850 R2 |     |     |     | ISO 4200 / Weld end EN ISO 1127 |     | DIN 11850 R2 |     | ASME BPE |     |     |     |      |      |
|         |                     |     | D                      | E  | D          | E    | D         | E    | CS                     | LS  | AS  | BS  | ØDS                             | WS  | ØDS          | WS  | CS       | LS  | AS  | BS  | ØDS  | WS   |
| 15      | 119                 | 134 | G 1/2                  | 14 | NPT 1/2    | 13.7 | RC 1/2    | 13.2 | 34                     | 100 | 128 | 142 | 21.3                            | 1.6 | 19           | 1.5 | 46       | 135 | 146 | 161 | 12.7 | 1.65 |

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

[www.burkert.com](http://www.burkert.com)

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

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