



## Direct-acting 2/2 or 3/2-way pivoted armature valve

- Direct-acting, media-separated valve up to DN 4
- Pilot valve with Bürkert-specific flange variant (SFB)
- Maintenance-free pivoted armature technology
- Service-friendly, robust manual override
- Explosion-proof variants

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

### Can be combined with

|                                                                                     |                                                                             |   |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|---|
|   | <b>Type 2518</b><br>Cable plug,<br>form A according to<br>DIN EN 175301-803 | ► |
|  | <b>Type 1087</b><br>Timer,<br>form A according to<br>DIN EN 175301-803      | ► |
|  | <b>Type 2509</b><br>Cable plug,<br>form A according to<br>DIN EN 175301-803 | ► |

### Type description

The 0331 valve is a direct-acting, media-separated pivoted armature valve. It is available as a 2/2 and 3/2-way variant. As a 3/2-way variant, it can be used as a distributor or mixing valve. Various diaphragm materials and circuit functions are available depending on the actual application. Brass, stainless steel, PEEK and polypropylene bodies are offered. The solenoid coils are moulded with a chemically resistant epoxy. Since the coil system is separated from the medium by a diaphragm, the valve is especially suitable for critical media such as aggressive acids and lyes. The 0331 is equipped with manual override for start-up and testing. To reduce energy demands, all the coils can be delivered with electronic power reduction or as an impulse variant. The switching status can be indicated via position feedback as a binary or NAMUR signal.

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## 1. General technical data

| Product properties                                         |                                                                                                                       |
|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Dimensions                                                 | Further information can be found in chapter "5. Dimensions" on page 9.                                                |
| <b>Material</b>                                            |                                                                                                                       |
| Seal                                                       | EPDM<br>FKM<br>FFKM<br>NBR                                                                                            |
| Body                                                       | Brass<br>Stainless steel (1.4401)<br>PP (Polypropylene)<br>PEEK<br>PVDF (on request)                                  |
| Material resistance                                        | Further information can be found in chapter "4.1. Bürkert resistApp" on page 8.                                       |
| <b>Weight</b>                                              |                                                                                                                       |
| Standard variant                                           | Metal body: 0.47 kg<br>Plastic body: 0.40 kg                                                                          |
| Explosion-proof variant                                    | Metal body: 0.75 kg<br>Plastic body: 0.60 kg                                                                          |
| Orifice                                                    | DN 2...DN 4                                                                                                           |
| Circuit function                                           | A, B, C, D, E, F and T<br>Further information can be found in chapter "2. Circuit functions" on page 6.               |
| Thermal insulation class of solenoid coil                  | Epoxy coil class H                                                                                                    |
| Performance data                                           |                                                                                                                       |
| <b>Duty cycle</b>                                          |                                                                                                                       |
| With brass and stainless steel                             | 100 % continuous operation                                                                                            |
| With PP and PVDF                                           | 40 % duty cycle (60 % intermittent operation) in 30 min for 8 W variant<br>100 % continuous operation for 5 W variant |
| With PEEK                                                  | 60 % duty cycle (40 % intermittent operation) in 30 min for 8 W variant                                               |
| With block mounting                                        | Use reduced duty cycle or 5 W coil                                                                                    |
| Switching frequency (explosion-proof variant)              | Medium temperature up to + 70 °C: max. 20/min<br>Medium temperature up to + 90 °C: max. 5/min                         |
| <b>Switching time<sup>1)</sup> standard variant</b>        |                                                                                                                       |
| Frequency AC                                               | Opening: 8...15 ms<br>Closing: 8...15 ms                                                                              |
| Frequency DC                                               | Opening: 10...20 ms<br>Closing: 10...20 ms                                                                            |
| <b>Switching time<sup>1)</sup> explosion-proof variant</b> |                                                                                                                       |
| Orifices DN 2... DN 4                                      | Opening: 30 ms<br>Closing: 40 ms                                                                                      |
| Electrical data                                            |                                                                                                                       |
| <b>Power consumption standard</b>                          |                                                                                                                       |
| Frequency AC                                               | Inrush: 30 VA<br>Hold: 15 VA<br>Hold: 8 W                                                                             |
| Frequency DC                                               | Cold: 11 W<br>Warm: 8 W                                                                                               |
| <b>Power consumption Impulse (inrush winding)</b>          |                                                                                                                       |
| Frequency AC                                               | Hold: 20 VA<br>Hold: 11 W                                                                                             |
| Frequency DC                                               | Cold: 11 W<br>Warm: 8 W                                                                                               |
| <b>Power consumption explosion-proof variant</b>           |                                                                                                                       |
| Frequency AC/DC                                            | Inrush: 40 W<br>Hold: 3 W                                                                                             |

### Voltage

|                         |                                                                                                                   |
|-------------------------|-------------------------------------------------------------------------------------------------------------------|
| Standard variant        | 24 V 50 Hz, 110 V 50 Hz, 230 V 50 Hz, 120 V 60 Hz, 240 V 60 Hz, 12 V DC, 24 V DC<br>(further voltages on request) |
| Explosion-proof variant | 24 V, 230 V (further voltages on request)                                                                         |
| Voltage tolerance       | ± 10 %                                                                                                            |

### Medium data

#### Operating medium

|               |                                                                                                                    |
|---------------|--------------------------------------------------------------------------------------------------------------------|
| With NBR      | Neutral mediums such as compressed air, town gas, water, hydraulic oil, oils and greases without additives, oxygen |
| With EPDM     | Alkalies, acids to medium concentrations, alkaline washing and bleaching lyes                                      |
| With FKM      | Oxidizing acids and substances, hot oils with additives, salt solutions, waste gases, oxygen                       |
| With FFKM     | Aggressive mediums, hot air, hot oils                                                                              |
| All Materials | Further information can be found in chapter "4.1. Bürkert resistApp" on page 8                                     |

#### Medium temperature

|                                                      |                                                                                                 |
|------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| With body material brass,<br>stainless steel or PEEK | NBR: 0 °C...+ 80 °C<br>EPDM: - 30 °C...+ 90 °C<br>FKM: 0 °C...+ 90 °C<br>FFKM: + 5 °C...+ 90 °C |
| With body material PP                                | NBR: 0 °C...+ 80 °C<br>EPDM: - 30 °C...+ 80 °C<br>FKM: 0 °C...+ 80 °C<br>FFKM: + 5 °C...+ 80 °C |

|           |                            |
|-----------|----------------------------|
| Viscosity | Max. 37 mm <sup>2</sup> /s |
|-----------|----------------------------|

### Product connections

#### Electrical connection

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standard variant        | <ul style="list-style-type: none"> <li>Plug contacts according to DIN EN 175 301 - 803 form A for cable plug <b>Type 2518</b> ▶<br/>Further information can be found in chapter "Cable plug Type 2518, form A according to DIN EN 175301 - 803" on page 21.</li> <li>Plug contacts according to DIN EN 175 301 - 803 form A for cable plug <b>Type 2509</b> ▶<br/>(Also available with moulded cable on request.)<br/>Further information can be found in chapter "Cable plug Type 2509, form A according to DIN EN 175301 - 803" on page 21.</li> </ul> |
| Explosion-proof variant | Moulded cable<br>Terminal box without safety fuse<br>(Information about ACP016 see operating manual.)                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Port connection         | Flange interface according to Bürkert standard (see also chapter "5. Dimensions" on page 9)                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

### Approvals and conformities

#### Degree of protection

|                            |                                                                                          |
|----------------------------|------------------------------------------------------------------------------------------|
| Standard variant           | IP65 with cable plug                                                                     |
| Explosion-proof variant    | IP65                                                                                     |
| Explosion protection       | Further information can be found in chapter "3.4. Explosion protection" on page 7.       |
| North America (USA/Canada) | Further information can be found in chapter "3.5. North America (USA/Canada)" on page 7. |
| Drinking water             | Further information can be found in chapter "3.6. Drinking water" on page 7.             |
| Others                     | Further information can be found in chapter "3.7. Others" on page 8.                     |

### Environment and installation

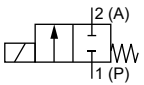
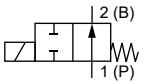
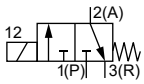
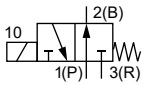
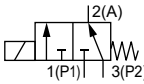
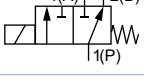
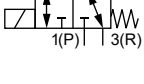
|                       |                                               |
|-----------------------|-----------------------------------------------|
| Installation position | As required, preferably with actuator upright |
|-----------------------|-----------------------------------------------|

#### Ambient temperature

|                         |              |
|-------------------------|--------------|
| Standard variant        | Max. + 55 °C |
| Explosion-proof variant | Max. + 55 °C |

1.) Measurement at + 20 °C, 6 bar at the valve outlet, opening: pressure build-up 0...90 %, closing: pressure reduction 100...10 %

## 2. Circuit functions

| Symbol                                                                              | Description                                                                                                               |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
|    | <b>Circuit function A (CF A)</b><br>2/2-way solenoid valve<br>Direct-acting<br>Normally closed                            |
|    | <b>Circuit function B (CF B)</b><br>2/2-way solenoid valve<br>Direct-acting<br>Normally open                              |
|    | <b>Circuit function C (CF C)</b><br>3/2-way solenoid valve<br>Direct-acting<br>Normally closed                            |
|    | <b>Circuit function D (CF D)</b><br>3/2-way solenoid valve<br>Direct-acting<br>Normally open                              |
|    | <b>Circuit function E (CF E)</b><br>3/2-way mixing valve (solenoid valve)                                                 |
|    | <b>Circuit function F (CF F)</b><br>3/2-way distribution valve (solenoid valve)<br>Direct-acting                          |
|  | <b>Circuit function T (CF T)</b><br>3/2-way solenoid valve<br>Direct-acting<br>Flow direction optional<br>Normally closed |

## 3. Approvals and conformities

### 3.1. General notes

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

### 3.2. Conformity

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

### 3.3. Standards

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

### 3.4. Explosion protection

| Approval                                                                                                                                                                           | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                  |  |                         |                         |                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--|-------------------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>             | <b>Optional: Explosion protection according to category 2 (zone 1/21)</b> <p>Ex marking of the components according to the following table:</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  |  |                         |                         |                                                                                                                                                                                    |
|                                                                                                                                                                                    | <table> <tr> <th colspan="2">Coil Type ACP016</th></tr> <tr> <th>Coils with cable outlet</th><th>Coils with terminal box</th></tr> <tr> <td> <b>ATEX:</b><br/>           EPS 16 ATEX 1 111 X<br/>           II 2G Ex mb IIC T4 Gb<br/>           II 2D Ex mb IIIC T130 °C Db<br/><br/> <b>IECEx:</b><br/>           IECEx EPS 16.0049X<br/>           Ex mb IIC T4 Gb<br/>           Ex mb IIIC T130 °C Db         </td><td> <b>ATEX:</b><br/>           EPS 16 ATEX 1 111 X<br/>           II 2G Ex eb mb IIC T4 Gb<br/>           II 2D Ex mb tb IIIC T130 °C Db<br/><br/> <b>IECEx:</b><br/>           IECEx EPS 16.0049X<br/>           Ex eb mb IIC T4 Gb<br/>           Ex mb tb IIIC T130 °C Db         </td></tr> </table> | Coil Type ACP016 |  | Coils with cable outlet | Coils with terminal box | <b>ATEX:</b><br>EPS 16 ATEX 1 111 X<br>II 2G Ex mb IIC T4 Gb<br>II 2D Ex mb IIIC T130 °C Db<br><br><b>IECEx:</b><br>IECEx EPS 16.0049X<br>Ex mb IIC T4 Gb<br>Ex mb IIIC T130 °C Db |
| Coil Type ACP016                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  |  |                         |                         |                                                                                                                                                                                    |
| Coils with cable outlet                                                                                                                                                            | Coils with terminal box                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                  |  |                         |                         |                                                                                                                                                                                    |
| <b>ATEX:</b><br>EPS 16 ATEX 1 111 X<br>II 2G Ex mb IIC T4 Gb<br>II 2D Ex mb IIIC T130 °C Db<br><br><b>IECEx:</b><br>IECEx EPS 16.0049X<br>Ex mb IIC T4 Gb<br>Ex mb IIIC T130 °C Db | <b>ATEX:</b><br>EPS 16 ATEX 1 111 X<br>II 2G Ex eb mb IIC T4 Gb<br>II 2D Ex mb tb IIIC T130 °C Db<br><br><b>IECEx:</b><br>IECEx EPS 16.0049X<br>Ex eb mb IIC T4 Gb<br>Ex mb tb IIIC T130 °C Db                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |  |                         |                         |                                                                                                                                                                                    |

### 3.5. North America (USA/Canada)

| Approval                                                                            | Description                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   | <b>Optional (valid for coils): UL Hazardous Locations – Explosion Protection</b><br>UL Listed for Hazardous Locations for USA and Canada<br>Class I, Zone 1<br>Class I, Division 2, Group A, B, C and D<br>Class II + III, Division 2, Group F and G                                   |
|  | <b>Optional (valid for valves): UL Recognized for the USA</b><br>The valves are UL Recognized for the USA according to: <ul style="list-style-type: none"> <li>UL 429 (electrically operated valves) and UL 429A (Electrically Operated Valves for Fire Protection Service)</li> </ul> |
|  | <b>Optional (valid for valves): CSA for Canada</b><br>The valves are CSA approved for Canada according to: <ul style="list-style-type: none"> <li>CSA 139 (electrically operated valves)</li> </ul>                                                                                    |
|  | <b>Optional (valid for coils): FM (Factory Mutual) – Explosion Protection</b><br>FM for Hazardous Locations for USA and Canada<br>Class I, Zone 1<br>Class I, Division 1, Groups A, B, C and D<br>Class II + III, Division 1, Groups E, F and G                                        |

### 3.6. Drinking water

| Conformity                                                                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>Suitable for use in drinking water applications</b><br>The materials comply with the assessment principles (UBA) for materials in contact with drinking water (TrinkwasserV).<br><br>PF39: Suitable for products with a maximum temperature of + 85 °C (hot water)<br>PF36: Suitable for products with a maximum temperature of + 60 °C (warm water)<br>PF40: Suitable for products with a maximum temperature of + 23 °C (cold water) |

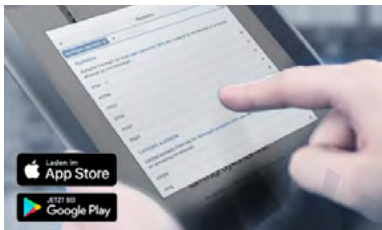
3.7. Others

DNV GL classification

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

4. Materials

4.1. Bürkert resistApp

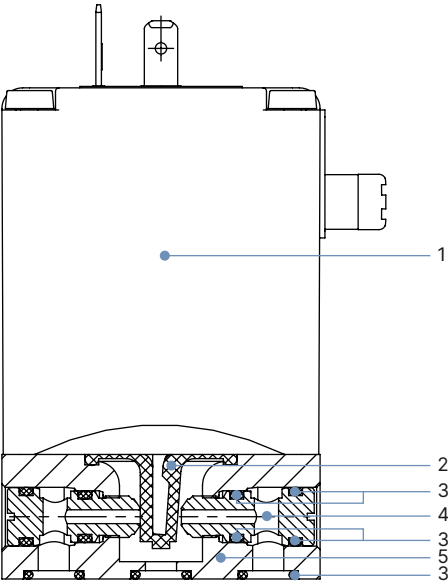


Bürkert resistApp – Chemical resistance chart

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

[Start chemical resistance check](#)

4.2. Material specifications



| No. | Element    | Material                                                        |
|-----|------------|-----------------------------------------------------------------|
| 1   | Coil       | Epoxy                                                           |
| 2   | Diaphragm  | EDPM, FKM, FFKM, NBR                                            |
| 3   | O-ring     | EDPM, FKM, FFKM, NBR                                            |
| 4   | Seat       | Brass<br>Stainless steel (1.4401)<br>PP (Polypropylene)<br>PEEK |
| 5   | Valve body | Brass<br>Stainless steel (1.4401)<br>PP (Polypropylene)<br>PEEK |

DTS 1000010928 EN Version: AA Status: RL (released | freigegeben | valide) printed: 26.02.2026

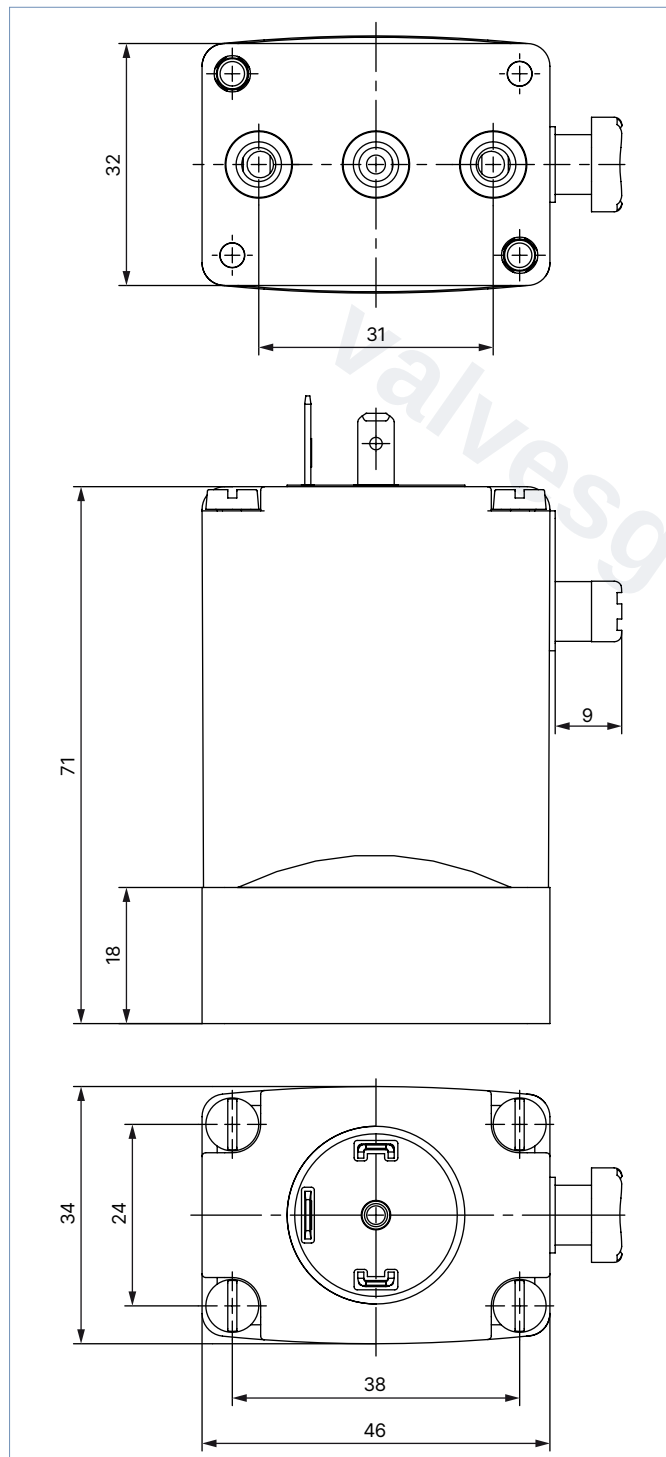
## 5. Dimensions

### 5.1. Standard variant

#### Metal body

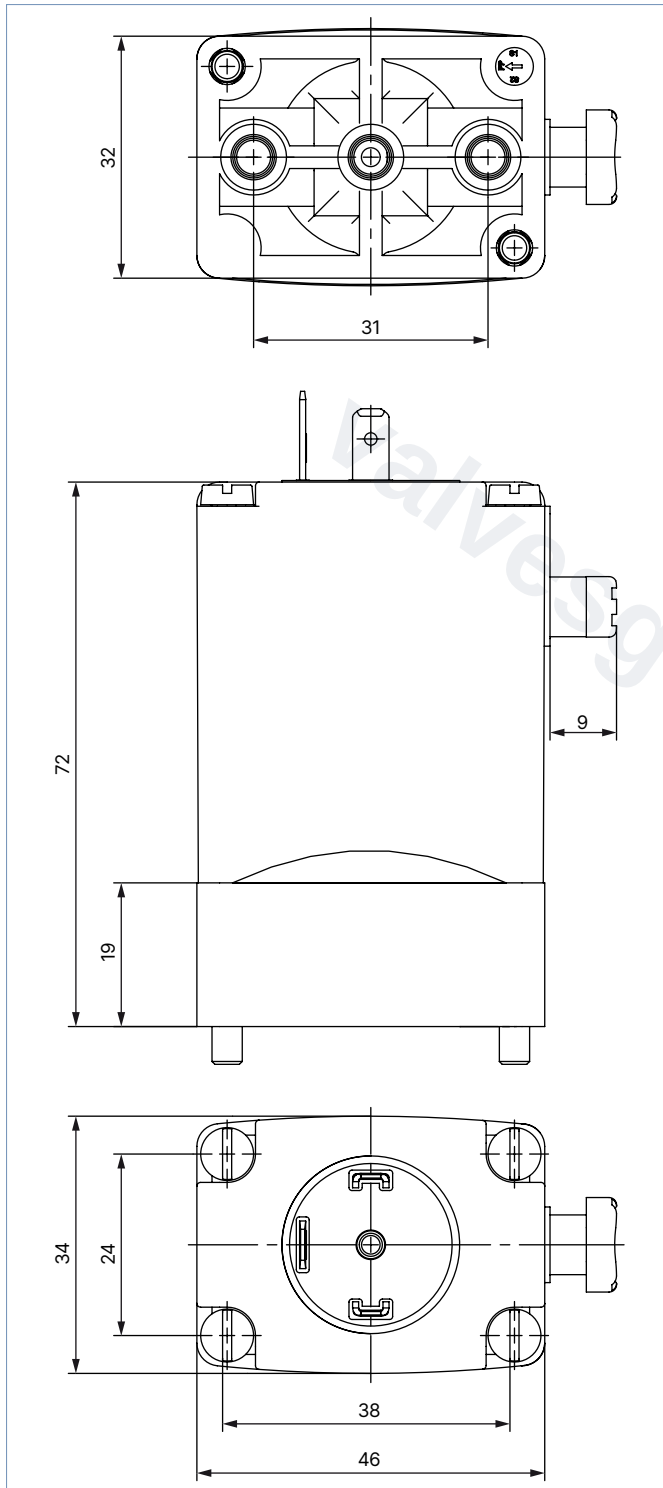
##### Note:

- Dimensions in mm
- The dimensions of the cable plug Type 2518 can be found in chapter "[Cable plug Type 2518, form A according to DIN EN 175301 - 803](#)" on page 21.
- The dimensions of the cable plug Type 2509 can be found in chapter "[Cable plug Type 2509, form A according to DIN EN 175301 - 803](#)" on page 21.



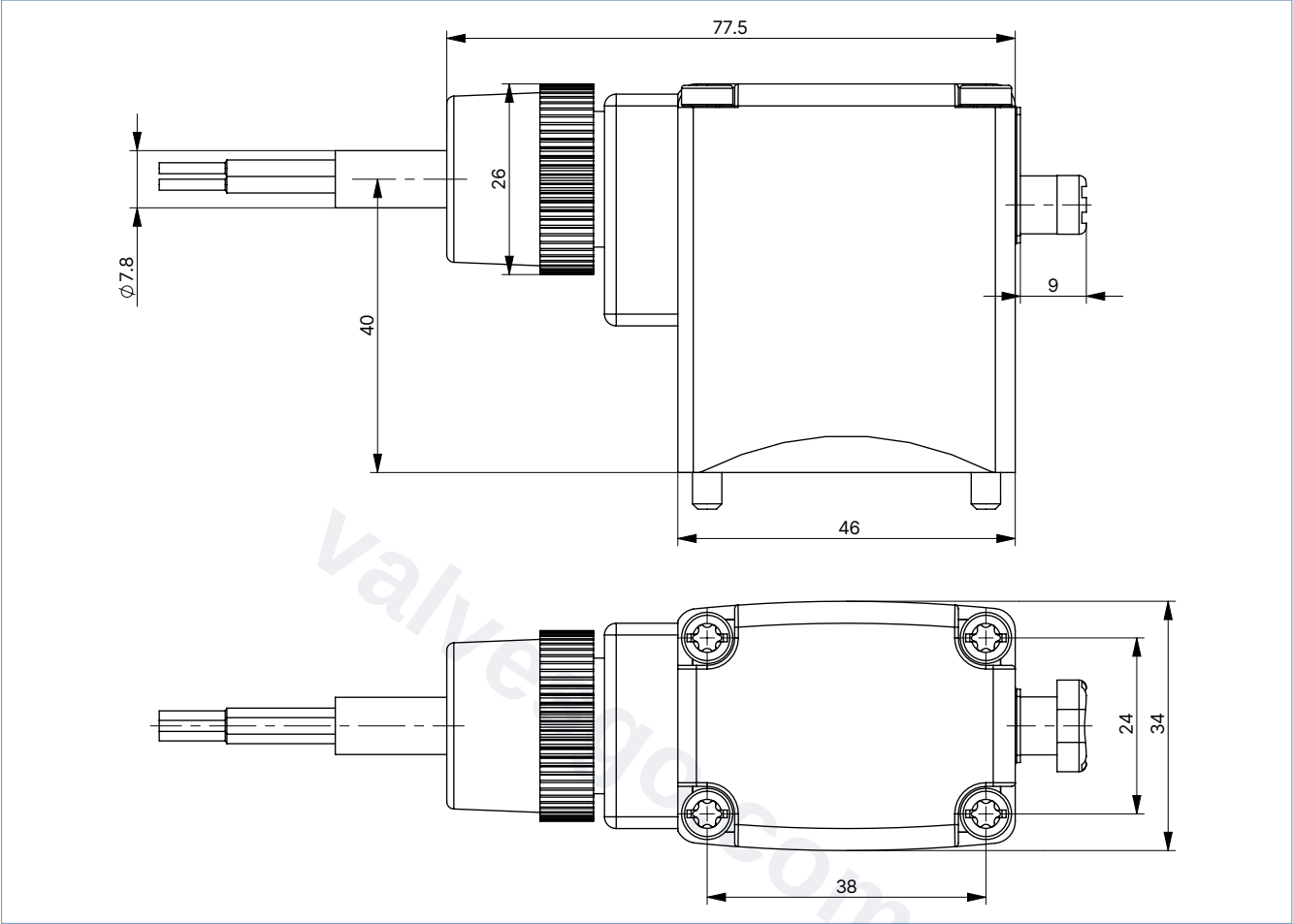
**Plastic body**
**Note:**

- Dimensions in mm
- The dimensions of the cable plug Type 2518 can be found in chapter "[Cable plug Type 2518, form A according to DIN EN 175301 - 803](#)" on page 21.
- The dimensions of the cable plug Type 2509 can be found in chapter "[Cable plug Type 2509, form A according to DIN EN 175301 - 803](#)" on page 21.



Cable variant

**Note:**  
Dimensions in mm

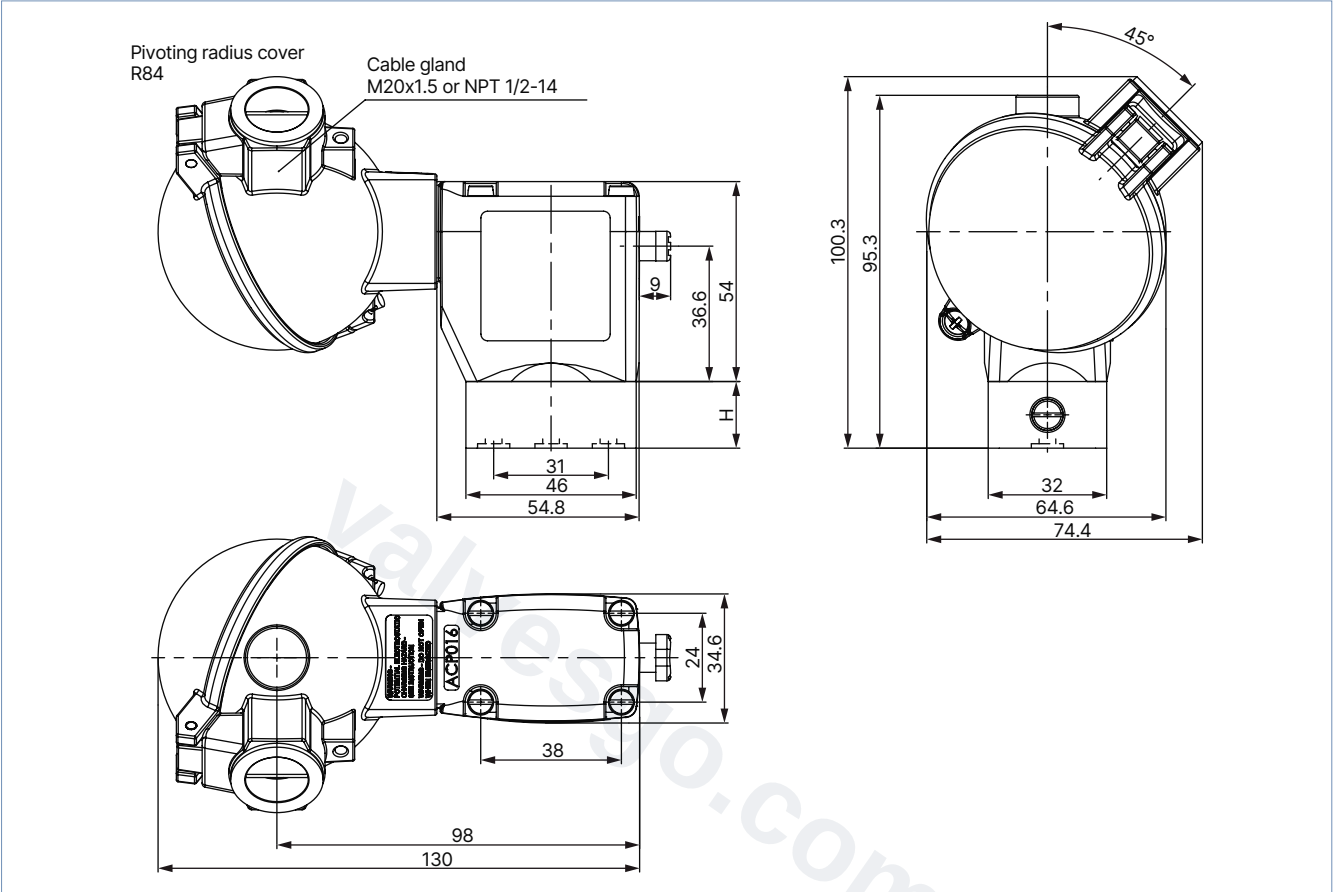


5.2. Explosion-proof variant

Terminal box variant

**Note:**

Dimensions in mm

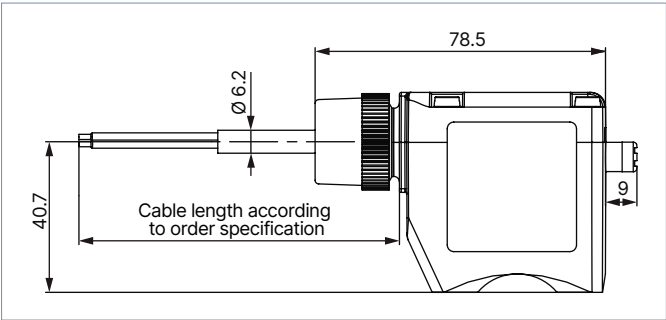


| Body material         | H  |
|-----------------------|----|
| Brass/Stainless steel | 18 |
| PP/PD                 | 19 |

Cable variant

**Note:**

Dimensions in mm



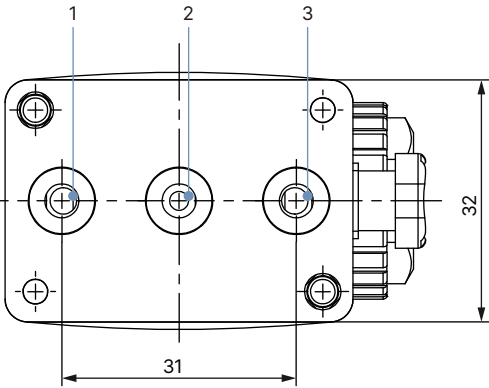
6. Product connections

6.1. Port connection

Pin assignment standard variant

Note:

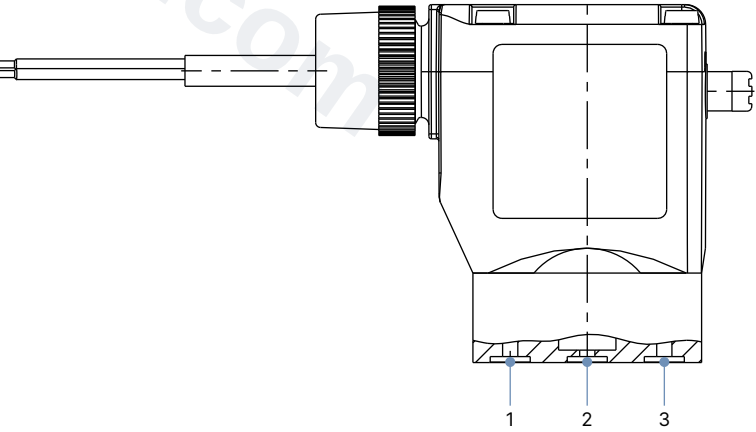
The pin assignment (marked No. 1, 2 and 3 in the drawing) depends on the circuit function. In the table, compare the respective pin assignment with the corresponding circuit function.

| Circuit function | Connection 1 | Connection 2        | Connection 3 | 3-way                                                                              |
|------------------|--------------|---------------------|--------------|------------------------------------------------------------------------------------|
| A                | P            | A                   | –            |  |
| B                | –            | B                   | P            |                                                                                    |
| C                | P            | A                   | R            |                                                                                    |
| D                | R            | B                   | P            |                                                                                    |
| E                | P1           | A                   | P2           |                                                                                    |
| F                | A            | P                   | B            |                                                                                    |
| T                | NC           | I <sub>N</sub> /OUT | NO           |                                                                                    |

Pin assignment explosion-proof variant

Note:

The pin assignment (marked No. 1, 2 and 3 in the drawing) depends on the circuit function. In the table, compare the respective pin assignment with the corresponding circuit function.

| Circuit function | Connection 1 | Connection 2        | Connection 3 | 3-way                                                                                |
|------------------|--------------|---------------------|--------------|--------------------------------------------------------------------------------------|
| A                | P            | A                   | –            |  |
| B                | –            | B                   | P            |                                                                                      |
| C                | P            | A                   | R            |                                                                                      |
| D                | R            | B                   | P            |                                                                                      |
| E                | P1           | A                   | P2           |                                                                                      |
| F                | A            | P                   | B            |                                                                                      |
| T                | NC           | I <sub>N</sub> /OUT | NO           |                                                                                      |

## 7. Performance specifications

### 7.1. Pressure range and flow rate

#### Standard variant

##### Note:

Refer to **"Use in other circuit function"** on page 15 for more information about use in other circuit function.

| Circuit function                    | DN | K <sub>v</sub> value water <sup>1.)</sup> |                     | Pressure range <sup>2.)</sup> |                       |                        |
|-------------------------------------|----|-------------------------------------------|---------------------|-------------------------------|-----------------------|------------------------|
|                                     |    | DC                                        | AC<br>(50 or 60 Hz) | Standard <sup>3.)</sup>       | Vacuum <sup>4.)</sup> | Impulse <sup>5.)</sup> |
|                                     |    | [m³/h]                                    | [m³/h]              | [bar]                         | [bar]                 | [bar]                  |
| Brass, stainless steel or PEEK body |    |                                           |                     |                               |                       |                        |
| A / B / C / D / F                   | 2  | 0.08                                      | 0.10                | 0...16 <sup>6.)</sup>         | - 0.98...10           | 0...16 <sup>6.)</sup>  |
|                                     | 3  | 0.12                                      | 0.15                | 0...10                        | - 0.98...6            | 0...10                 |
|                                     | 4  | 0.15                                      | 0.18                | 0...5                         | - 0.98...3            | 0...5                  |
| E                                   | 2  | 0.08                                      | 0.10                | 0...10                        | - 0.98...8            | 0...10                 |
|                                     | 3  | 0.12                                      | 0.15                | 0...6                         | - 0.98...5            | 0...6                  |
|                                     | 4  | 0.15                                      | 0.18                | 0...3                         | - 0.98...2.5          | 0...3                  |
| T                                   | 2  | 0.08                                      | 0.10                | 0...12                        | - 0.98...8            | –                      |
|                                     | 3  | 0.12                                      | 0.15                | 0...8                         | - 0.98...5            | –                      |
|                                     | 4  | 0.15                                      | 0.18                | 0...4                         | - 0.98...3            | –                      |

| Circuit function  | DN | K <sub>v</sub> value water <sup>7.)</sup> | Pressure range <sup>2.)</sup>               |                            |                       |                        |
|-------------------|----|-------------------------------------------|---------------------------------------------|----------------------------|-----------------------|------------------------|
|                   |    |                                           | Standard <sup>3.)</sup> AC<br>[50 or 60 Hz] | Standard <sup>3.)</sup> DC | Vacuum <sup>4.)</sup> | Impulse <sup>5.)</sup> |
|                   |    | [m³/h]                                    | [bar]                                       | [bar]                      | [bar]                 | [bar]                  |
| PP and PVDF body  |    |                                           |                                             |                            |                       |                        |
| A / B / C / D / F | 2  | 0.1                                       | 0..16 <sup>6.)</sup>                        | 0..12                      | - 0.98..10            | 0..12                  |
|                   | 3  | 0.15                                      | 0..10                                       | 0..8                       | - 0.98..6             | 0..8                   |
|                   | 4  | 0.18                                      | 0..5                                        | 0..4                       | - 0.98..3             | 0..4                   |
| E / T             | 2  | 0.1                                       | 0..10                                       | 0..7                       | - 0.98..7             | 0..7                   |
|                   | 3  | 0.15                                      | 0..6                                        | 0..4                       | - 0.98..5             | 0..4                   |
|                   | 4  | 0.18                                      | 0..3                                        | 0..2.5                     | - 0.98..2.5           | 0..2                   |

1.) For frequency 56, the K<sub>v</sub> values of the DC variant apply

2.) Pressure data: overpressure to atmospheric pressure (deviating pressure range for 5 W variant)

3.) Heat output 8 W

4.) Vacuum possible for all seal materials

5.) Starting power 11 W

6.) The maximum medium pressure is 12 bar for seal material FKM and FFKM.

7.) The K<sub>v</sub> value at DC frequency is reduced by up to 10 % to guarantee the function.

## Explosion-proof variant

## Note:

Refer to **"Use in other circuit function" on page 15** for more information about use in other circuit function.

| Circuit function                    | DN  | K <sub>v</sub> value water | Pressure range <sup>1)2)</sup> |              |
|-------------------------------------|-----|----------------------------|--------------------------------|--------------|
|                                     |     |                            | Standard                       | Vacuum       |
|                                     |     | [m³/h]                     | [bar]                          | [bar]        |
| Brass, stainless steel or PEEK body |     |                            |                                |              |
| A / B / C / D / F                   | 2.0 | 0.10                       | 0...16                         | - 0.98...10  |
|                                     | 3.0 | 0.15                       | 0...10                         | - 0.98...6   |
|                                     | 4.0 | 0.18                       | 0...5                          | - 0.98...3   |
| E                                   | 2.0 | 0.10                       | 0...10                         | - 0.98...8   |
|                                     | 3.0 | 0.15                       | 0...6                          | - 0.98...5   |
|                                     | 4.0 | 0.18                       | 0...3                          | - 0.98...2.5 |
| T                                   | 2.0 | 0.10                       | 0...10                         | - 0.98...8   |
|                                     | 3.0 | 0.15                       | 0...8                          | - 0.98...5   |
|                                     | 4.0 | 0.18                       | 0...4                          | - 0.98...3   |

1.) Devices with FKM and/or FFKM diaphragms are reduced to a maximum pressure of 12 bar.

2.) Pressure data: overpressure to atmospheric pressure

| Circuit function  | DN  | K <sub>v</sub> value water | Pressure range <sup>1)2)</sup> |              |
|-------------------|-----|----------------------------|--------------------------------|--------------|
|                   |     |                            | Standard                       | Vacuum       |
|                   |     | [m³/h]                     | [bar]                          | [bar]        |
| PP and PVDF body  |     |                            |                                |              |
| A / B / C / D / F | 2.0 | 0.10                       | 0...16                         | - 0.98...10  |
|                   | 3.0 | 0.15                       | 0...10                         | - 0.98...6   |
|                   | 4.0 | 0.18                       | 0...5                          | - 0.98...3   |
| E / T             | 2.0 | 0.10                       | 0...10                         | - 0.98...8   |
|                   | 3.0 | 0.15                       | 0...6                          | - 0.98...5   |
|                   | 4.0 | 0.18                       | 0...3                          | - 0.98...2.5 |

1.) Devices with FKM and/or FFKM diaphragms are reduced to a maximum pressure of 12 bar.

2.) Pressure data: overpressure to atmospheric pressure

## Use in other circuit function

The compression springs installed in the valves differ depending on the circuit function. When used in other circuit functions, the permissible operating pressure changes according to the following table.

## Note:

The following table applies to both the standard variant and the explosion-proof variant.

| Circuit function                            | Max. operating pressure [bar] when using the valve in a new circuit function |                 |     |     |     |    |              |    |     |    |   |    |              |     |   |     |     |   |
|---------------------------------------------|------------------------------------------------------------------------------|-----------------|-----|-----|-----|----|--------------|----|-----|----|---|----|--------------|-----|---|-----|-----|---|
|                                             | Orifice DN 2                                                                 |                 |     |     |     |    | Orifice DN 3 |    |     |    |   |    | Orifice DN 4 |     |   |     |     |   |
|                                             | A <sup>1)</sup>                                                              | B <sup>1)</sup> | C   | D   | E   | F  | A            | B  | C   | D  | E | F  | A            | B   | C | D   | E   | F |
| <b>Metal body (8 W respectively 11 W)</b>   |                                                                              |                 |     |     |     |    |              |    |     |    |   |    |              |     |   |     |     |   |
| C                                           | 16                                                                           | 1.5             | 16  | 1.5 | 1.5 | 16 | 10           | 1  | 10  | 1  | 1 | 10 | 5            | 0.8 | 5 | 0.8 | 0.8 | 5 |
| D                                           | 4                                                                            | 16              | 4.5 | 16  | 4   | 4  | 2.5          | 10 | 2.5 | 10 | 2 | 3  | 2            | 5   | 2 | 5   | 2   | 2 |
| T                                           | 8                                                                            | 8               | 10  | 10  | 10  | 8  | 6            | 6  | 6   | 6  | 6 | 6  | 3            | 3   | 3 | 3   | 3   | 3 |
| <b>Plastic body (8 W respectively 11 W)</b> |                                                                              |                 |     |     |     |    |              |    |     |    |   |    |              |     |   |     |     |   |
| C                                           | 16                                                                           | 1.5             | 16  | 1.5 | 1.5 | 16 | 10           | 1  | 10  | 1  | 1 | 10 | 5            | 0.8 | 5 | 0.8 | 0.8 | 5 |
| D                                           | 4                                                                            | 16              | 4.5 | 16  | 4   | 4  | 2.5          | 10 | 2.5 | 10 | 2 | 3  | 2            | 5   | 2 | 5   | 2   | 2 |
| F                                           | 16                                                                           | 1.5             | 10  | 1.5 | 1.5 | 16 | 6            | 1  | 6   | 1  | 1 | 10 | 4            | 1   | 4 | 1   | 1   |   |

1.) For circuit function A and B, the valve must be connected according to the pin assignment of 3/2-way valve.

## 8. Product accessories

### 8.1. Accessory standard variant

| Option                                                                      | Variable code          | Description                                                                                                                                                                                                                                                        |
|-----------------------------------------------------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Impulse variant                                                             | CF02                   | Bistable magnetic system with inrush and drop-off coil; continuous operation or operation with short current pulses (min. 150 ms) possible                                                                                                                         |
| Oxygen variants                                                             | NL02                   | Suitable for applications with oxygen (non-metal materials that are in contact with the medium, are tested and approved according to BAM)                                                                                                                          |
| Increased purity requirements, e.g. oil-free, grease-free and silicone-free | NL50/<br>NL05          | Wetted parts are specially cleaned and packaged in accordance with the valves                                                                                                                                                                                      |
| Increased tightness requirements                                            | PCxx                   | Standard devices are tested at $10^{-2}$ mbar x l/s; up to $10^{-6}$ mbar is possible                                                                                                                                                                              |
| Electrical feedback                                                         | LF02/<br>LF03          | See <b>Type 1060</b> ►. Function as opener, closer or toggle switch depending on the connection (no IP65 achievable)                                                                                                                                               |
| High-performance electronics                                                | CZ05                   | Inrush power 60 W, nominal holding current 3 W; with plastic variants 100 % duty cycle is now feasible                                                                                                                                                             |
| Vacuum variant                                                              | NA02                   | Suitable for vacuums up to -0.98 bar                                                                                                                                                                                                                               |
| Increased purity and tightness requirements                                 | NA03                   | Wetted parts are specially cleaned and leak tested to $10^{-4}$ mbar x l/sec                                                                                                                                                                                       |
| Increased purity and tightness requirements and vacuum variant              | NA01                   | Wetted parts are specially cleaned and leak tested up to $10^{-4}$ mbar x l/sec and suited for vacuum up to -0.98 bar                                                                                                                                              |
| Coil with reduced power (5 W)                                               | –                      | The devices have a lower pressure range; 100% duty cycle is possible with plastic variants                                                                                                                                                                         |
| Cable plug                                                                  | JHxx/<br>JGxx/<br>JFxx | A cable plug is part of the delivery.<br>Cable plug variants (according to DIN EN 175301 - 803 form A), see separate data sheet <b>Type 2518</b> ► and <b>Type 2509</b> ►                                                                                          |
| Manifold with banjo bolt                                                    | LG09                   | Due to the banjo bolt a direct attachment is possible (for example, to externally controlled pneumatic drives)                                                                                                                                                     |
| Approvals                                                                   | PD01                   | CSA General Purpose valve                                                                                                                                                                                                                                          |
|                                                                             | PD02                   | UR (UL Recognized)/CSA approval                                                                                                                                                                                                                                    |
|                                                                             | PD07                   | DNV-GL (formerly Germanischer Lloyd)                                                                                                                                                                                                                               |
|                                                                             | PR05                   | cFMus approved coil<br>Class I, Division 1, Groups A, B, C and D - T4<br>Class II, Division 1, Groups E, F and G - T4<br>Class III, Division 1 - T4<br>Class I, Zone 1, AEx mb IIC T4 Gb, Zone 21 AEx mb IIIC T130 °C Db<br>Ex mb IIC T4 Gb; Ex mb IIIC T130 °C Db |
|                                                                             | PE95                   | UL (UL Listed) approval                                                                                                                                                                                                                                            |
|                                                                             | PU15                   | UL Listed for Hazardous Locations for USA and Canada, Class I, Zone 1, AEx eb mb IIC T4; Zone 21, AEx mb tb IIIC T130 °C / Class I, Div 2, Group A,B,C,D; Class II+III, Div 2, Group F,G                                                                           |
|                                                                             | PX41                   | EPS 16 ATEX 1111 X/IECEx EPS 16.0049X, 2G T4 IIC/2D T130 °C IIIC, Tamb - 40 °C...+ 60 °C, single and block mounting                                                                                                                                                |
| Possible conformities (depending on the assembly)                           | –                      | EAC, drinking water, FDA                                                                                                                                                                                                                                           |

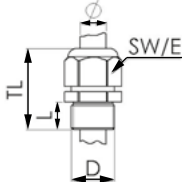
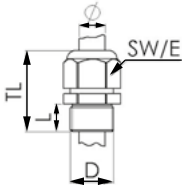
### 8.2. Accessory explosion-proof variant

| Option                                                                      | Variable code | Description                                                                                                                               |
|-----------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Oxygen variants                                                             | NL02          | Suitable for applications with oxygen (non-metal materials that are in contact with the medium, are tested and approved according to BAM) |
| Increased purity requirements, e.g. oil-free, grease-free and silicone-free | NL50/<br>NL05 | Wetted parts are specially cleaned and packaged in accordance with the valves                                                             |
| Increased tightness requirements                                            | PCxx          | Standard devices are tested at $10^{-2}$ mbar x l/s; up to $10^{-6}$ mbar is possible                                                     |
| Vacuum variant                                                              | NA02          | Suitable for vacuums up to -0.98 bar                                                                                                      |
| Increased purity and hermetic requirements                                  | NA03          | Wetted parts are specially cleaned and leak tested to $10^{-4}$ mbar x l/sec                                                              |
| Increased purity and hermetic requirements and vacuum variant               | NA01          | Wetted parts are specially cleaned and leak tested up to $10^{-4}$ mbar x l/sec and suited for vacuum up to -0.98 bar                     |
| Electrical feedback                                                         | CF15          | Coil with intrinsically safe proximity switches (PTB 00 ATEX 2048X) instead of manual override                                            |
| Manifold with banjo bolt                                                    | LG09          | Due to the banjo bolt a direct attachment is possible (for example, to externally controlled pneumatic drives)                            |
| Possible conformities (depending on the assembly)                           | –             | EAC, drinking water, FDA                                                                                                                  |

### 8.3. Cable glands for ATEX/IECEx terminal box

**Note:**

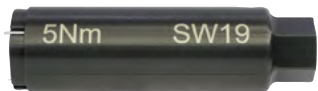
A polyamide cable gland is included in the scope of delivery. A nickel-plated brass variant can be ordered for a surcharge, see [“Cable glands for ATEX/IECEx terminal box” on page 21.](#)

| Description                                                                                                                                                  | Ex approvals                              |                                                  | Dimensions                                                                                                                                                                                                                                                                                              |    |            |   |       |   |       |    |       |   |       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------|---|-------|---|-------|----|-------|---|-------|
|                                                                                                                                                              | Certification                             | Identification                                   |                                                                                                                                                                                                                                                                                                         |    |            |   |       |   |       |    |       |   |       |
| <div>Ex cable gland,<br/>nickel-plated brass, 6...13 mm</div> <div></div> | PTB 04 ATEX 1112 X,<br>IECEX PTB 13.0027X | II 2 G Ex e IIC Gb,<br>II 2 D Ex tb IIIC Db IP68 | <div></div> <div><table><tr><td>TL</td><td>29...37 mm</td></tr><tr><td>L</td><td>6 mm</td></tr><tr><td>D</td><td>20 mm</td></tr><tr><td>SW</td><td>24 mm</td></tr><tr><td>E</td><td>27 mm</td></tr></table></div>  | TL | 29...37 mm | L | 6 mm  | D | 20 mm | SW | 24 mm | E | 27 mm |
| TL                                                                                                                                                           | 29...37 mm                                |                                                  |                                                                                                                                                                                                                                                                                                         |    |            |   |       |   |       |    |       |   |       |
| L                                                                                                                                                            | 6 mm                                      |                                                  |                                                                                                                                                                                                                                                                                                         |    |            |   |       |   |       |    |       |   |       |
| D                                                                                                                                                            | 20 mm                                     |                                                  |                                                                                                                                                                                                                                                                                                         |    |            |   |       |   |       |    |       |   |       |
| SW                                                                                                                                                           | 24 mm                                     |                                                  |                                                                                                                                                                                                                                                                                                         |    |            |   |       |   |       |    |       |   |       |
| E                                                                                                                                                            | 27 mm                                     |                                                  |                                                                                                                                                                                                                                                                                                         |    |            |   |       |   |       |    |       |   |       |
| <div>Ex cable gland,<br/>Polyamide, 7...13 mm</div> <div></div>           | PTB 13 ATEX 1015 X,<br>IECEX PTB 13.0034X | II 2 G Ex e IIC Gb,<br>II 2 D Ex tb IIIC Db IP68 | <div></div> <div><table><tr><td>TL</td><td>36...45 mm</td></tr><tr><td>L</td><td>10 mm</td></tr><tr><td>D</td><td>20 mm</td></tr><tr><td>SW</td><td>24 mm</td></tr><tr><td>E</td><td>28 mm</td></tr></table></div> | TL | 36...45 mm | L | 10 mm | D | 20 mm | SW | 24 mm | E | 28 mm |
| TL                                                                                                                                                           | 36...45 mm                                |                                                  |                                                                                                                                                                                                                                                                                                         |    |            |   |       |   |       |    |       |   |       |
| L                                                                                                                                                            | 10 mm                                     |                                                  |                                                                                                                                                                                                                                                                                                         |    |            |   |       |   |       |    |       |   |       |
| D                                                                                                                                                            | 20 mm                                     |                                                  |                                                                                                                                                                                                                                                                                                         |    |            |   |       |   |       |    |       |   |       |
| SW                                                                                                                                                           | 24 mm                                     |                                                  |                                                                                                                                                                                                                                                                                                         |    |            |   |       |   |       |    |       |   |       |
| E                                                                                                                                                            | 28 mm                                     |                                                  |                                                                                                                                                                                                                                                                                                         |    |            |   |       |   |       |    |       |   |       |

### 8.4. Special tool to turn the terminal box

**Note:**

This special tool is not included in the scope of delivery of the valve, see [“Cable glands for ATEX/IECEx terminal box” on page 21.](#)

| Description                                                                                          | Components of the set                                                                      |
|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Set SC02-AC10<br> | <ul style="list-style-type: none"> <li>• Special tool</li> <li>• Service manual</li> </ul> |

## 9. Ordering information

### 9.1. Bürkert eShop



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

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### 9.2. Bürkert product filter

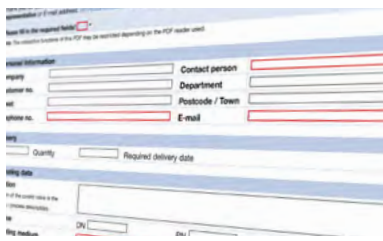


#### Bürkert product filter – Get quickly to the right product

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

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### 9.3. Bürkert Product Enquiry Form



#### Bürkert Product Enquiry Form – Your enquiry quickly and compactly

Would you like to make a specific product enquiry based on your technical requirements? Use our Product Enquiry Form for this purpose. There you will find all the relevant information for your Bürkert contact. This will enable us to provide you with the best possible advice.

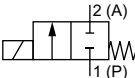
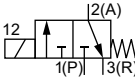
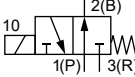
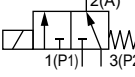
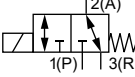
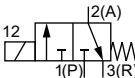
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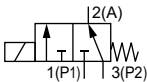
## 9.4. Ordering chart

### Standard variant

#### Note:

Products with reduced delivery time

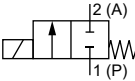
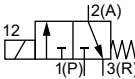
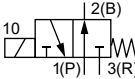
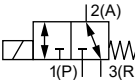
| Circuit function                                                                                                                                                                            | Orifice | Body and seat material | Seal material | Article no.                                                                                 |                                                                                              |                                                                                              |                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------------|---------------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
|                                                                                                                                                                                             | [mm]    |                        |               | 024/DC                                                                                      | 024/50                                                                                       | 110/50                                                                                       | 230/50                                                                                       |
|                                                                                                                                                                                             |         |                        |               | [V/Hz]                                                                                      | [V/Hz]                                                                                       | [V/Hz]                                                                                       | [V/Hz]                                                                                       |
| With manual override and cable plug Type 2518                                                                                                                                               |         |                        |               |                                                                                             |                                                                                              |                                                                                              |                                                                                              |
| <b>CF A</b><br>2/2-way solenoid valve<br>Direct-acting<br>Normally closed<br>                              | 4.0     | Polypropylene          | FKM           | 088352    | –                                                                                            | –                                                                                            | 020278    |
| <b>CF C</b><br>3/2-way solenoid valve<br>Direct-acting<br>Normally closed<br>                              | 2.0     | Brass                  | NBR           | 041183    | 041184    | 044989    | 041188    |
|                                                                                                                                                                                             | 2.0     | Stainless steel        | FKM           | 048354    | –                                                                                            | –                                                                                            | –                                                                                            |
|                                                                                                                                                                                             | 3.0     | Brass                  | NBR           | 041195    | 041198    | 041203    | 041209    |
|                                                                                                                                                                                             | 3.0     | Stainless steel        | FKM           | 045796    | –                                                                                            | –                                                                                            | –                                                                                            |
| <b>CF D</b><br>3/2-way solenoid valve<br>Direct-acting<br>Normally open<br>                              | 2.0     | Brass                  | NBR           | 041234  | 041235  | 041798  | 041242  |
|                                                                                                                                                                                             | 3.0     | Brass                  | NBR           | 041247  | 041248  | 041531  | 041254  |
| <b>CF E</b><br>3/2-way mixing valve<br>(solenoid valve)<br>                                              | 2.0     | Brass                  | NBR           | 042061  | 042799  | 040064  | 041265  |
|                                                                                                                                                                                             | 3.0     | Brass                  | NBR           | 042980  | 043104  | 046843  | 041270  |
|                                                                                                                                                                                             | 3.0     | Polypropylene          | EPDM          | 021892  | –                                                                                            | –                                                                                            | –                                                                                            |
| <b>CF T</b><br>3/2-way solenoid valve<br>Direct-acting<br>Flow direction optional<br>Normally closed<br> | 2.0     | Brass                  | FKM           | 124953  | 124954  | 124955  | 124956  |
|                                                                                                                                                                                             | 3.0     | Brass                  | FKM           | 124958  | 124959  | 124960  | 124961  |
| With manual override and cable plug Type 2518 and manifold (banjo variant)                                                                                                                  |         |                        |               |                                                                                             |                                                                                              |                                                                                              |                                                                                              |
| <b>CF C</b><br>3/2-way solenoid valve<br>Direct-acting<br>Normally closed<br>                            | 2.0     | Brass                  | NBR           | 041191  | –                                                                                            | –                                                                                            | 041192  |
|                                                                                                                                                                                             | 3.0     | Brass                  | NBR           | 041217  | 041219  | 041223  | 041228  |
|                                                                                                                                                                                             | 3.0     | Brass                  | FKM           | 041231  | –                                                                                            | –                                                                                            | 041233  |

| Circuit function                                                                                                                             | Orifice | Body and seat material | Seal material | Article no.      |                  |                  |                  |
|----------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------------|---------------|------------------|------------------|------------------|------------------|
|                                                                                                                                              | [mm]    |                        |               | 024/DC<br>[V/Hz] | 024/50<br>[V/Hz] | 110/50<br>[V/Hz] | 230/50<br>[V/Hz] |
| <b>CF E</b><br>3/2-way mixing valve<br>(solenoid valve)<br> | 2.0     | Brass                  | NBR           | 123092 ☹         | –                | –                | 043913 ☹         |

– = not available

**Explosion-proof variant****Note:**

Other variants are available on request.

| Circuit function                                                                                                                                                                            | Orifice | Body and seat material | Seal material | Electrical connection | Article no. |             |                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------------|---------------|-----------------------|-------------|-------------|-------------------------|
|                                                                                                                                                                                             |         |                        |               |                       | 024 / AC/DC | 110 / AC/DC | 230 bzw.<br>240 / AC/DC |
|                                                                                                                                                                                             | [mm]    |                        |               |                       | [V/Hz]      | [V/Hz]      | [V/Hz]                  |
| With manual override                                                                                                                                                                        |         |                        |               |                       |             |             |                         |
| <b>CF A</b><br>2/2-way solenoid valve<br>Direct-acting<br>Normally closed<br>                            | 3.0     | Stainless steel        | FKM           | Cable                 | 353437 ☹    | –           | –                       |
| <b>CF C</b><br>3/2-way solenoid valve<br>Direct-acting<br>Normally closed<br>                            | 2.0     | Stainless steel        | NBR           | Terminal box          | –           | –           | –                       |
|                                                                                                                                                                                             | 2.0     | Stainless steel        | FKM           | Terminal box          | –           | –           | –                       |
|                                                                                                                                                                                             | 2.0     | Stainless steel        | NBR           | Cable                 | 353434 ☹    | –           | –                       |
|                                                                                                                                                                                             | 3.0     | Brass                  | NBR           | Cable                 | 353418 ☹    | –           | 353414 ☹                |
|                                                                                                                                                                                             | 3.0     | Stainless steel        | FKM           | Cable                 | 353438 ☹    | –           | –                       |
| <b>CF D</b><br>3/2-way solenoid valve<br>Direct-acting<br>Normally open<br>                              | 2.0     | Brass                  | NBR           | Terminal box          | –           | –           | –                       |
|                                                                                                                                                                                             | 2.0     | Brass                  | NBR           | Cable                 | 353450 ☹    | –           | 353422 ☹                |
|                                                                                                                                                                                             | 2.0     | Stainless steel        | NBR           | Cable                 | 353431 ☹    | –           | –                       |
|                                                                                                                                                                                             | 2.0     | Stainless steel        | NBR           | Terminal box          | –           | 353392 ☹    | –                       |
|                                                                                                                                                                                             | 3.0     | Brass                  | NBR           | Cable                 | 353433 ☹    | –           | –                       |
| <b>CF T</b><br>3/2-way solenoid valve<br>Direct-acting<br>Flow direction optional<br>Normally closed<br> | 2.0     | Stainless steel        | FKM           | Cable                 | 353430 ☹    | –           | 353421 ☹                |
|                                                                                                                                                                                             | 2.0     | Stainless steel        | FKM           | Terminal box          | –           | 353421 ☹    | 353386 ☹                |
|                                                                                                                                                                                             | 2.0     | Stainless steel        | NBR           | Cable                 | 353428 ☹    | –           | 353429 ☹                |
|                                                                                                                                                                                             | 2.0     | Stainless steel        | EPDM          | Terminal box          | –           | –           | 353389 ☹                |
|                                                                                                                                                                                             | 2.0     | Brass                  | NBR           | Cable                 | 353423 ☹    | 353424 ☹    | 353425 ☹                |
|                                                                                                                                                                                             | 2.0     | Brass                  | NBR           | Terminal box          | –           | –           | –                       |
|                                                                                                                                                                                             | 2.0     | Brass                  | FKM           | Cable                 | 353426 ☹    | –           | 353427 ☹                |
|                                                                                                                                                                                             | 2.0     | Brass                  | FKM           | Terminal box          | –           | 353381 ☹    | 353382 ☹                |

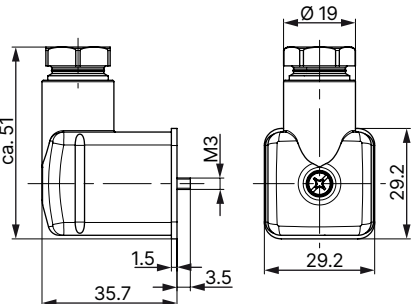
– = not available

### 9.5. Ordering chart accessories

#### Cable plug Type 2518, form A according to DIN EN 175301 - 803

**Note:**

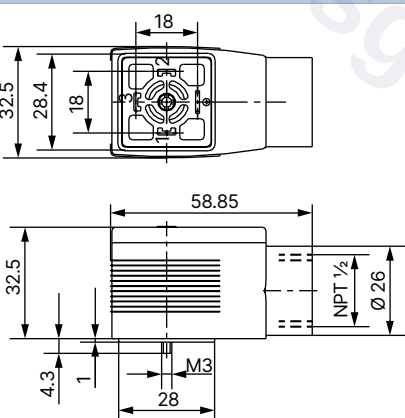
- Dimensions in mm
- For further variants see data sheet **Type 2518** ►

| Cable plug                                                                        | Dimensions                                                                        | Variant                          | Voltage         | Article no. |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------|-----------------|-------------|
|  |  | Without wiring (AC/DC)           | 0...250 V AC/DC | 314802 𐀀    |
|                                                                                   |                                                                                   | With LED (AC/DC)                 | 12...24 V AC/DC | 314812 𐀀    |
|                                                                                   |                                                                                   | With LED and varistor (AC/DC)    | 12...24 V AC/DC | 314820 𐀀    |
|                                                                                   |                                                                                   | With rectifier, LED and varistor | 12...24 V AC/DC | 314816 𐀀    |

#### Cable plug Type 2509, form A according to DIN EN 175301 - 803

**Note:**

- Dimensions in mm
- Without wiring (standard)
- Refer to data sheet **Type 2509** ► for more information about the cable plug.

| Cable plug                                                                          | Dimensions                                                                          | Variant        | Voltage         | Article no. |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------|-----------------|-------------|
|  |  | Without wiring | 0...250 V AC/DC | 137943 𐀀    |

#### Cable glands for ATEX/IECEx terminal box

**Note:**

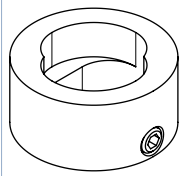
- A polyamide cable gland is included in the scope of delivery. A nickel-plated brass variant can be ordered for a surcharge.
- Refer to **"8.3. Cable glands for ATEX/IECEx terminal box"** on page 17 for more information about Ex cable glands.
- Refer to **"8.4. Special tool to turn the terminal box"** on page 17 for more information about special tool.

| Description                                                    | Article no. |
|----------------------------------------------------------------|-------------|
| Ex cable gland, nickel-plated brass, 6...13 mm <sup>1)</sup>   | 773278 𐀀    |
| Ex cable gland, polyamide, 7...13 mm <sup>1)</sup>             | 773277 𐀀    |
| Set SC02-AC10: special tool <sup>2)</sup> incl. service manual | 293488 𐀀    |

1.) Cable diameter

2.) Not included in the scope of delivery of the valve

Circlip

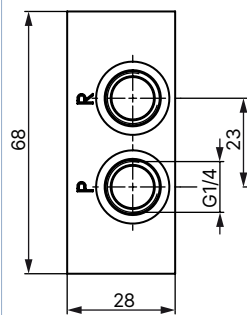
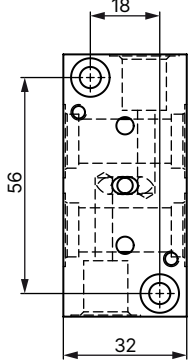
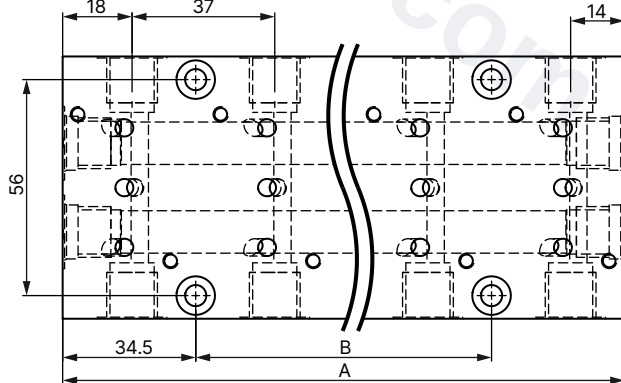
| Description                                                                       | Article no. |
|-----------------------------------------------------------------------------------|-------------|
| Circlip to prevent inadvertent manual actuation                                   | 013372 ☒    |
|  |             |

Manifolds for flange valves G 1/4

| Number of valve slots | Length A<br>[mm] | Hole spacing B<br>[mm] | Article no.           |                    |          |
|-----------------------|------------------|------------------------|-----------------------|--------------------|----------|
|                       |                  |                        | Anodized<br>Aluminium | Stainless<br>steel | Brass    |
| 1                     | 32               | –                      | 005043 ☒              | o. r.              | o. r.    |
| 2                     | 69               | –                      | 005045 ☒              | o. r.              | 612071 ☒ |
| 3                     | 106              | 37                     | 005366 ☒              | o. r.              | o. r.    |
| 4                     | 143              | 74                     | 005294 ☒              | 658925 ☒           | 006324 ☒ |
| 5                     | 180              | 111                    | 005295 ☒              | o. r.              | o. r.    |
| 6                     | 217              | 148                    | 005296 ☒              | o. r.              | 006326 ☒ |
| 7                     | 254              | 185                    | 005403 ☒              | o. r.              | o. r.    |
| 8                     | 291              | 222                    | 006074 ☒              | o. r.              | –        |

o. r. = on request  
– = not available

**Note:**  
Dimensions in mm

| Multiple manifold                                                                    | Single manifold                                                                       |
|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|   |  |
|  |                                                                                       |

Accessories for manifolds

| Description                                                       | Material           | Seal material | Article no. |
|-------------------------------------------------------------------|--------------------|---------------|-------------|
| Cover plate (for unoccupied valve slot)                           | Stainless steel    | FKM           | 265294 ☒    |
| Cover plate (for unoccupied valve slot)                           | Anodized Aluminium | NBR           | 005625 ☒    |
| Nipple (for connecting the collection channel of 2 manifolds)     | Coated Steel       | FKM           | 005049 ☒    |
| Nipple (for connecting the collection channel of 2 manifolds)     | Stainless steel    | FKM           | 007376 ☒    |
| Nipple (for connecting 2 manifolds; collection channel is closed) | Coated Steel       | NBR           | 006049 ☒    |