



## Direct-acting 2/2-way plunger valve

- Direct-acting and compact small valve up to DN 2.4
- Slipped over coil system
- Simple and fast flange or manifold mounting
- Quick coupling (push-in fitting) for push-in connectors
- Explosion-proof variants

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

### Type description

The 7011 valve is a direct-acting plunger valve. The stopper and the core guide tube are welded together to increase pressure resistance and leak-tightness. Various housing and seal material combinations are available depending on the actual application. A Bürkert-specific flange variant (SFB) enables the space-saving arrangement of valves on a multiple manifold. The range is supplemented by variants conforming to DVGW EN 161 and explosion-proof variants. Push-in fittings can be selected for a flexible hose connection. In combination with a plug conforming to DIN EN 175301 - 803 shape B, the valves satisfy degree of protection IP65.

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## 1. General technical data

### 1.1. Standard variant

| Product properties                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dimensions                                   | Further information can be found in chapter <a href="#">“5. Dimensions” on page 10.</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Material</b>                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Seal                                         | FKM, EPDM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Body                                         | Brass, polyamide (PA), stainless steel 1.4305/303                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Manual override                              | Optional                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Weight</b>                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Standard variant<br>24.5 mm solenoid coil    | 146 g (with G 1/8)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Standard variant<br>20 mm solenoid coil      | 120 g (with G 1/8)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Orifice                                      | DN 1.2...DN 2.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Circuit function                             | A and B<br>Further information can be found in chapter <a href="#">“2. Circuit functions” on page 6.</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Thermal insulation class of<br>solenoid coil | Epoxy coil class H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Performance data                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Duty cycle</b>                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Single valve                                 | 100 % resp. 50 % continuous operation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| For block mounting on multiple<br>manifold   | With 4 W/5 W solenoid coil 100 % ED (at max. + 55 °C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Switching time <sup>1.)</sup>                | Opening: 8...15 ms<br>Closing: 10...17 ms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Electrical data                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Operating voltage                            | 24 V DC, 24 V 60 Hz, 110 V 50 Hz, 120 V 60 Hz, 230 V 50 Hz, 240 V 60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Power consumption                            | Further information can be found in chapter <a href="#">“7. Performance specifications” on page 17.</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Voltage tolerance                            | ± 10 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Medium data                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Operating medium                             | Neutral gases and liquids (e.g. compressed air, water, hydraulic oil, technical vacuum)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Medium temperature                           | - 10 °C...+ 100 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Viscosity                                    | Max. 21 mm <sup>2</sup> /s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Product connections                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Electrical connection                        | <ul style="list-style-type: none"> <li>According to DIN EN 175301 - 803 form C for cable plug <b>Type 2516</b> ▶<br/>Further information can be found in chapter <a href="#">“Cable plug Type 2516, form C according to DIN EN 175301 - 803” on page 28.</a></li> <li>According to industry standard form B for cable plug <b>Type 2507</b> ▶<br/>Further information can be found in chapter <a href="#">“Cable plug Type 2507, form B according to industry standard” on page 29.</a></li> <li>Flat pin terminal as protection class III device</li> <li>Flying leads connection on request for coil size 20 mm</li> </ul> |
| Port connection                              | M5, G 1/8, NPT 1/8, flange                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Approvals and conformities                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Degree of protection                         | IP65 with cable plug and ATEX/IECEx cable variant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| North America (USA/Canada)                   | Further information can be found in chapter <a href="#">“3.5. North America (USA/Canada)” on page 6.</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Drinking water                               | Further information can be found in chapter <a href="#">“3.6. Drinking water” on page 7.</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Foods and beverages/Hygiene                  | Further information can be found in chapter <a href="#">“3.7. Foods and beverages/Hygiene” on page 7.</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Environment and installation                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Installation position                        | As required, preferably with actuator upright                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Ambient temperature                          | Max. + 55 °C resp. + 75 °C (depending on power level)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

1.) Measurement at + 20 °C, 6 bar at the valve outlet acc. to DIN ISO 12238:2001, opening: pressure build-up 0...10 %, closing: pressure reduction 100...90 %

## 1.2. DVGW variant

The solenoid valve Type 7011 DVGW is primarily intended as an automatic safety shut-off valve for fuel gases. A strainer is installed in the inlet of the valve.

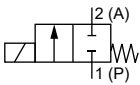
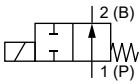
| Product properties                  |                                                                                                                                                                   |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Material</b>                     |                                                                                                                                                                   |
| Seal                                | NBR                                                                                                                                                               |
| Body                                | Brass, stainless steel 1.4305/303                                                                                                                                 |
| Circuit function                    | A                                                                                                                                                                 |
| <b>Performance data</b>             |                                                                                                                                                                   |
| Operating pressure                  | Max. 42 bar (depending on orifice and coil power)                                                                                                                 |
| <b>Medium data</b>                  |                                                                                                                                                                   |
| Operating medium                    | Fuel gases (e.g. town gas, district gas, liquid gas, hydrogen)<br>Further information can be found in chapter <a href="#">“4.1. Bürkert resistApp” on page 7.</a> |
| Medium temperature                  | - 20 °C...+ 80 °C                                                                                                                                                 |
| <b>Approvals and conformities</b>   |                                                                                                                                                                   |
| Fuel gases                          | Further information can be found in chapter <a href="#">“3.8. Others” on page 7.</a>                                                                              |
| Standards                           | DIN EN 161:2016, DIN EN 16678:2016                                                                                                                                |
| <b>Environment and installation</b> |                                                                                                                                                                   |
| Ambient temperature                 | - 20 °C...+ 55 °C                                                                                                                                                 |

## 1.3. ATEX/IECEx cable variant

| Product properties                      |                                                                                                    |
|-----------------------------------------|----------------------------------------------------------------------------------------------------|
| <b>Material</b>                         |                                                                                                    |
| Seal                                    | FKM, EPDM                                                                                          |
| Body                                    | Brass, stainless steel 1.4305/303                                                                  |
| <b>Connection</b>                       |                                                                                                    |
| Thread                                  | G 1/8, NPT 1/8, RC 1/8, M5, UNF 10 - 32                                                            |
| Flange                                  | Flange “FK01”                                                                                      |
| Circuit function                        | A and B                                                                                            |
| Available coil size                     | SG3 (24.5 mm width)                                                                                |
| <b>Performance data</b>                 |                                                                                                    |
| Operating pressure                      | Max. 34 bar (depending on orifice and coil power)                                                  |
| <b>Medium data</b>                      |                                                                                                    |
| Operating medium                        | Neutral gases and liquids (e.g. compressed air, water, hydraulic oil, technical vacuum)            |
| <b>Medium temperature<sup>1)</sup></b>  |                                                                                                    |
| FKM                                     | - 10 °C...+ 100 °C                                                                                 |
| EPDM                                    | - 30 °C...+ 100 °C                                                                                 |
| <b>Product connections</b>              |                                                                                                    |
| Electrical connection                   | ATEX/IECEx cable variant with 3 m moulded-in cable                                                 |
| <b>Approvals and conformities</b>       |                                                                                                    |
| Explosion protection                    | Further information can be found in chapter <a href="#">“3.4. Explosion protection” on page 6.</a> |
| Degree of protection                    | IP65 with cable plug and ATEX/IECEx cable variant                                                  |
| <b>Environment and installation</b>     |                                                                                                    |
| <b>Ambient temperature<sup>1)</sup></b> |                                                                                                    |
| FKM                                     | - 10 °C...+ 55 °C (max. + 60 °C on request)                                                        |
| EPDM                                    | - 30 °C...+ 55 °C (max. + 60 °C on request)                                                        |

1.) The minimum temperature depends on the seal material.

## 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   |

## 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                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>Optional: Explosion protection (valid for coils with fixed cable outlet)</b><br><br><b>ATEX:</b><br>EPS 21 ATEX 1 128 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 21.0045X<br>Ex mb IIC T4 Gb<br>Ex mb IIIC T130 °C Db<br><br>The fixed cable is halogen-free according to IEC 60754 - 1 |

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

| Approval                                                                            | Description                                                                                                                                                                                                                                             |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>Valid for coils: UL Recognized for the USA and Canada</b><br>The coils are UL Recognized for the USA and Canada according to: <ul style="list-style-type: none"> <li>UL 429 (electrically operated valves)</li> <li>CAN/CSA-C22.2 No. 139</li> </ul> |

### 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><b>PA body:</b><br>PF36: Suitable for products with a maximum temperature of + 60 °C (warm water)<br><br><b>PPS/brass/stainless steel body:</b><br>PF39: Suitable for products with a maximum temperature of + 85 °C (hot water) |

### 3.7. Foods and beverages/Hygiene

| Conformity                                                                         | Description                                                                                                                                                                                                                                                        |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FDA                                                                                | <b>FDA – Code of Federal Regulations (valid for the variable code PL02, PL03)</b><br>All wetted materials are compliant with the Code of Federal Regulations published by the FDA (Food and Drug Administration, USA) according to the manufacturer's declaration. |
| USP                                                                                | <b>United States Pharmacopeial Convention (USP) (valid for the variable code PL04)</b><br>All wetted materials are biocompatible according to the manufacturer's declaration.                                                                                      |
|  | <b>EC Regulation 1935/2004 of the European Parliament and of the Council (valid for the variable code PL01, PL02)</b><br>All wetted materials are compliant with EC Regulation 1935/2004/EC according to the manufacturer's declaration.                           |

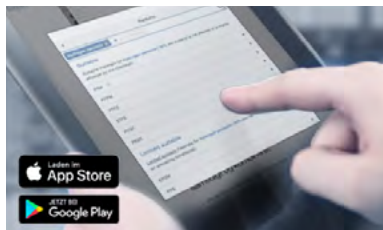
### 3.8. Others

#### Fuel gases

| Conformity                                                                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>Fuel gases (valid for the variable code PO19)</b><br>The products comply with: <ul style="list-style-type: none"> <li>Regulation (EU) 2016/426 – Appliances burning gaseous fuels and</li> <li>DVGW DIN EN 161 (Automatic shut-off valves for gas burners and gas appliances) and</li> <li>DIN EN 16678, Class A or Class D (Safety and control devices for gas burners and gas burning appliances – Automatic shut-off valves for operating pressure of above 500 kPa up to and including 6300 kPa)</li> </ul> |
|  | <b>Optional: DIN EN 549:2023-07 certification</b><br>The wetted valve seals are compliant with DIN EN 549:2023-07 (Rubber materials for seals and diaphragms for gas appliances and gas equipment) for medium temperatures of - 20 °C...+ 80 °C.                                                                                                                                                                                                                                                                   |

## 4. Materials

### 4.1. Bürkert resistApp



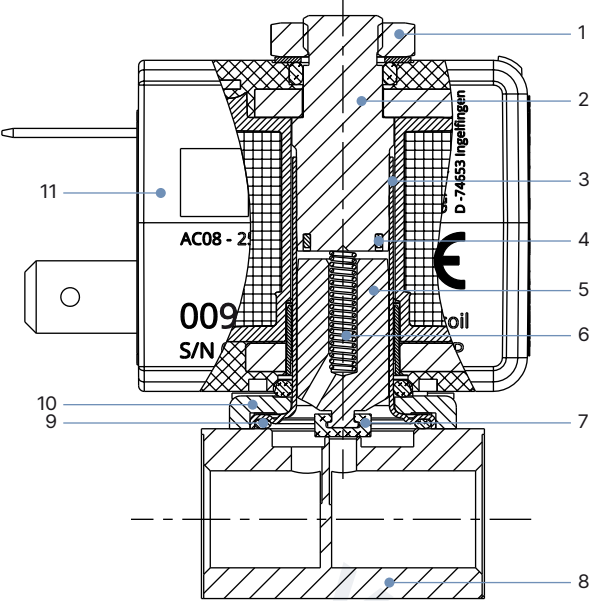
#### Bürkert resistApp – Chemical resistance chart

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](#)

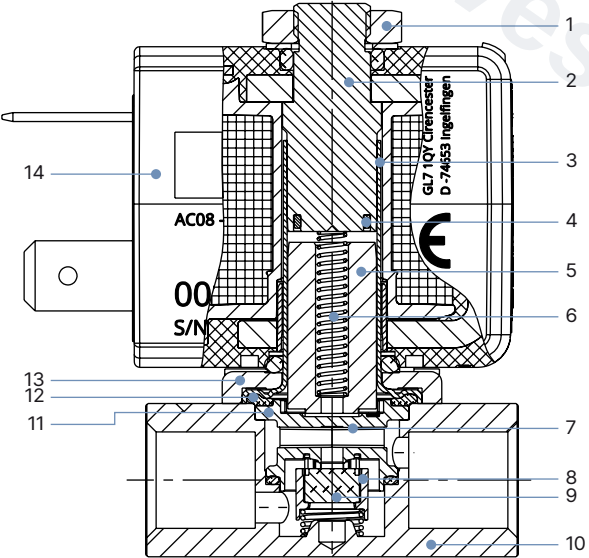
4.2. Material specifications

Standard variant circuit function A



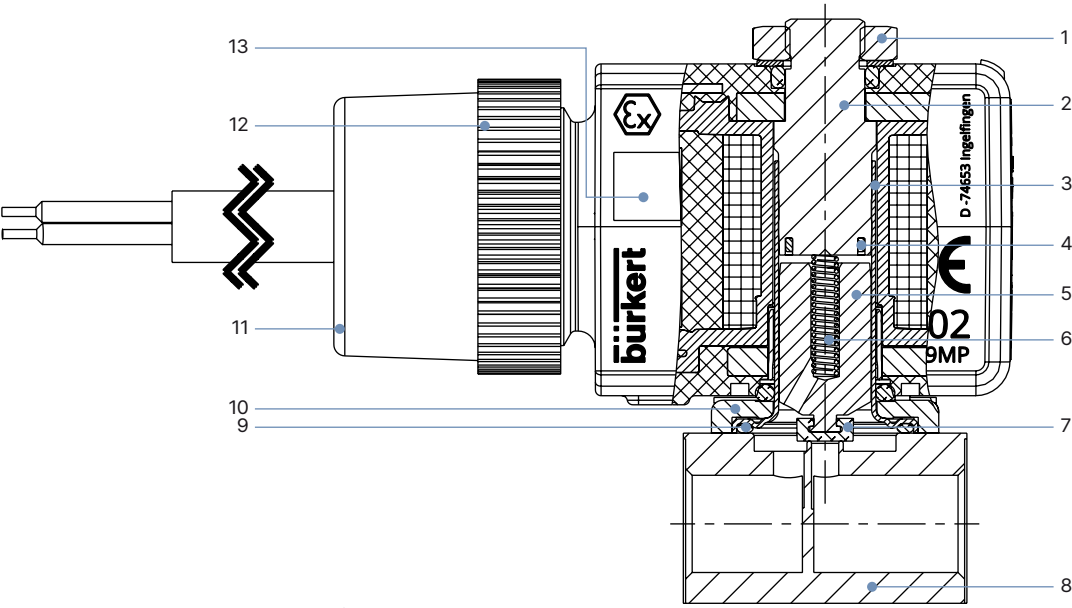
| No. | Element         | Material                                                                                                                                                                      |
|-----|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Nut             | DIN 176<br>Surface finish thick film passivated<br>KOSA0101                                                                                                                   |
| 2   | Stopper         | Stainless steel 1.4113/434                                                                                                                                                    |
| 3   | Core guide tube | Stainless steel 1.4303 ST/305L                                                                                                                                                |
| 4   | Shading ring    | Copper (optional silver)                                                                                                                                                      |
| 5   | Core            | Stainless steel 1.4113/434                                                                                                                                                    |
| 6   | Spring          | Stainless steel 1.4310/301                                                                                                                                                    |
| 7   | Seal            | FKM/EPDM                                                                                                                                                                      |
| 8   | Valve body      | Brass, stainless steel 1.4305/303,<br>PA (polyamide)                                                                                                                          |
| 9   | O-ring          | FKM/EPDM                                                                                                                                                                      |
| 10  | Flange          | <ul style="list-style-type: none"><li>Surface finish thick film passivated<br/>KOSA0101 (brass variant)</li><li>Nickel-plated surface<br/>(stainless steel variant)</li></ul> |
| 11  | Coil            | Epoxy                                                                                                                                                                         |

Standard variant circuit function B



| No. | Element         | Material                                                                                                                                                                      |
|-----|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Nut             | DIN 176<br>Surface finish thick film passivated<br>KOSA0101                                                                                                                   |
| 2   | Stopper         | Stainless steel 1.4113/434                                                                                                                                                    |
| 3   | Core guide tube | Stainless steel 1.4303 ST/305L                                                                                                                                                |
| 4   | Shading ring    | Copper (optional silver)                                                                                                                                                      |
| 5   | Core            | Stainless steel 1.4113/434                                                                                                                                                    |
| 6   | Spring          | Stainless steel 1.4310/301                                                                                                                                                    |
| 7   | Insert          | PEEK GF30                                                                                                                                                                     |
| 8   | Seal holder     | PEEK GF30                                                                                                                                                                     |
| 9   | Seat seal       | FKM                                                                                                                                                                           |
| 10  | Valve body      | Brass, stainless steel 1.4305/303,<br>PA (polyamide)                                                                                                                          |
| 11  | Seal            | FKM/EPDM                                                                                                                                                                      |
| 12  | O-ring          | FKM/EPDM                                                                                                                                                                      |
| 13  | Flange          | <ul style="list-style-type: none"><li>Surface finish thick film passivated<br/>KOSA0101 (brass variant)</li><li>Nickel-plated surface<br/>(stainless steel variant)</li></ul> |
| 14  | Coil            | Epoxy                                                                                                                                                                         |

ATEX/IECEx cable variant



| No. | Element         | Material                                                                                                                                                                      |
|-----|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Nut             | DIN 176<br>Surface finish thick film passivated<br>KOSA0101                                                                                                                   |
| 2   | Stopper         | Stainless steel 1.4113/434                                                                                                                                                    |
| 3   | Core guide tube | Stainless steel 1.4303 ST/305L                                                                                                                                                |
| 4   | Shading ring    | Copper (optional silver)                                                                                                                                                      |
| 5   | Core            | Stainless steel 1.4113/434                                                                                                                                                    |
| 6   | Spring          | Stainless steel 1.4310/301                                                                                                                                                    |
| 7   | Seal            | FKM/EPDM                                                                                                                                                                      |
| 8   | Valve body      | Brass, stainless steel 1.4305/303,<br>PA (polyamide)                                                                                                                          |
| 9   | O-ring          | FKM/EPDM                                                                                                                                                                      |
| 10  | Flange          | <ul style="list-style-type: none"><li>Surface finish thick film passivated<br/>KOSA0101 (brass variant)</li><li>Nickel-plated surface<br/>(stainless steel variant)</li></ul> |
| 11  | Sealing ring    | Silicone                                                                                                                                                                      |
| 12  | Union nut       | PA (Polyamide)                                                                                                                                                                |
| 13  | Coil            | Epoxy                                                                                                                                                                         |

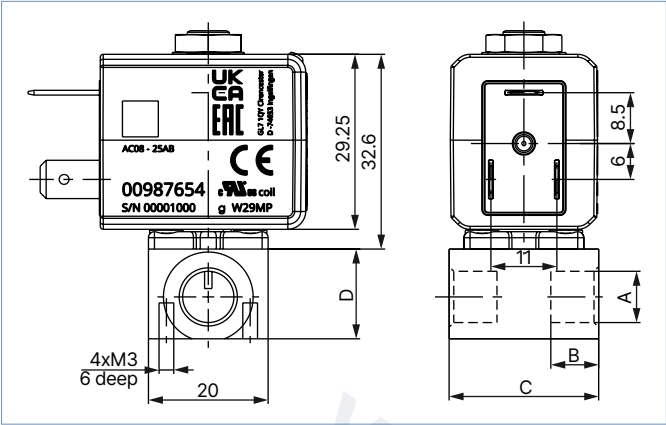
5. Dimensions

5.1. Standard variant

Threaded variant

Note:

- Dimensions in mm
- Variants according to industry standard form B

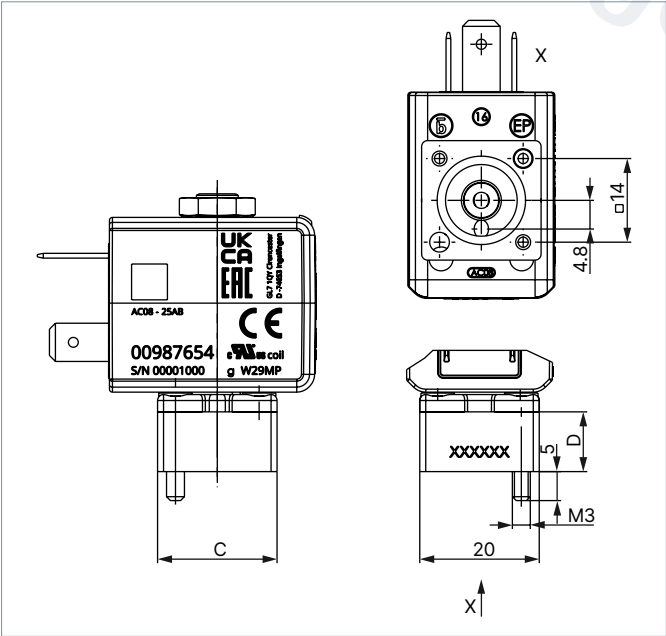


| Port connection | A       | B    | C    | D    |
|-----------------|---------|------|------|------|
|                 |         | [mm] | [mm] | [mm] |
| Thread CF A     | M5      | 5    | 20   | 10   |
|                 | G 1/8   | 8    | 25   | 15   |
|                 | NPT 1/8 | 7    | 25   | 15   |
| Thread CF B     | G 1/8   | 8    | 34   | 14   |
|                 | NPT 1/8 | 7    | 34   | 14   |

Flange variant

Note:

- Dimensions in mm
- Variants according to industry standard form B

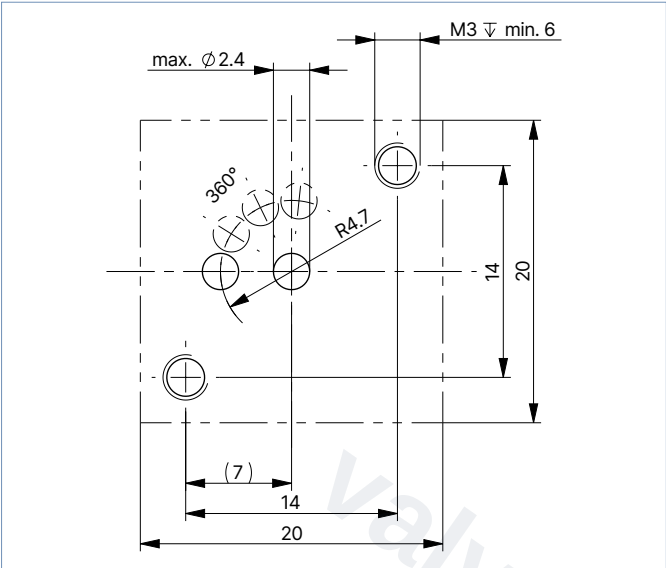


| Port connection | A | B    | C    | D    |
|-----------------|---|------|------|------|
|                 |   | [mm] | [mm] | [mm] |
| Flange CF A     | – | –    | 20   | 10   |
| Flange CF B     | – | –    | 25   | 15   |

Flange pattern

Note:

- Dimensions in mm
- On the connection side, the geometries are to be realised as shown in the following drawing.
- Flange variant (FK01) according to FST 1000225877

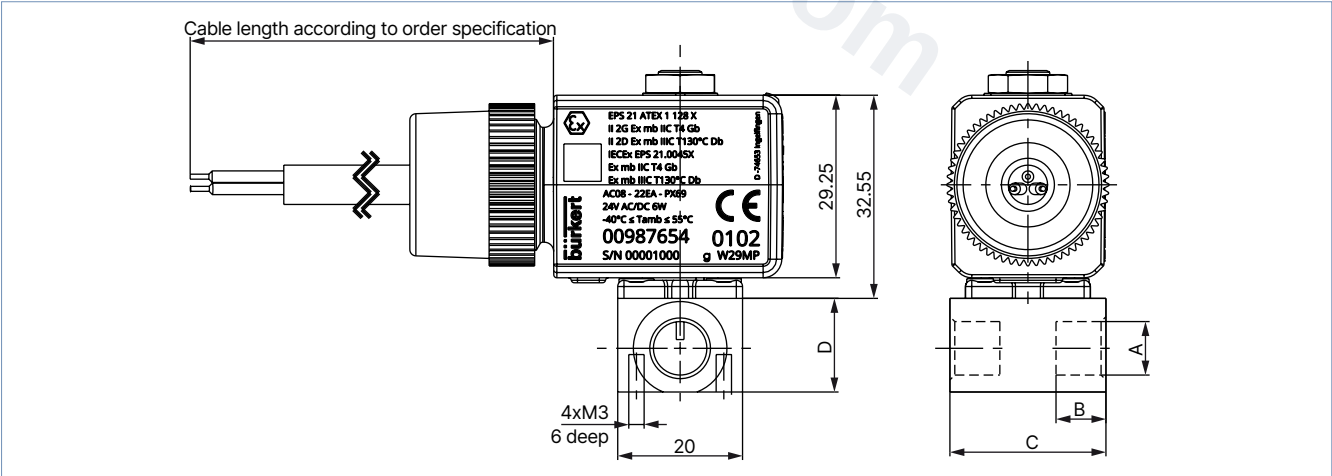


5.2. ATEX/IECEx cable variant

Threaded variant

Note:

Dimensions in mm

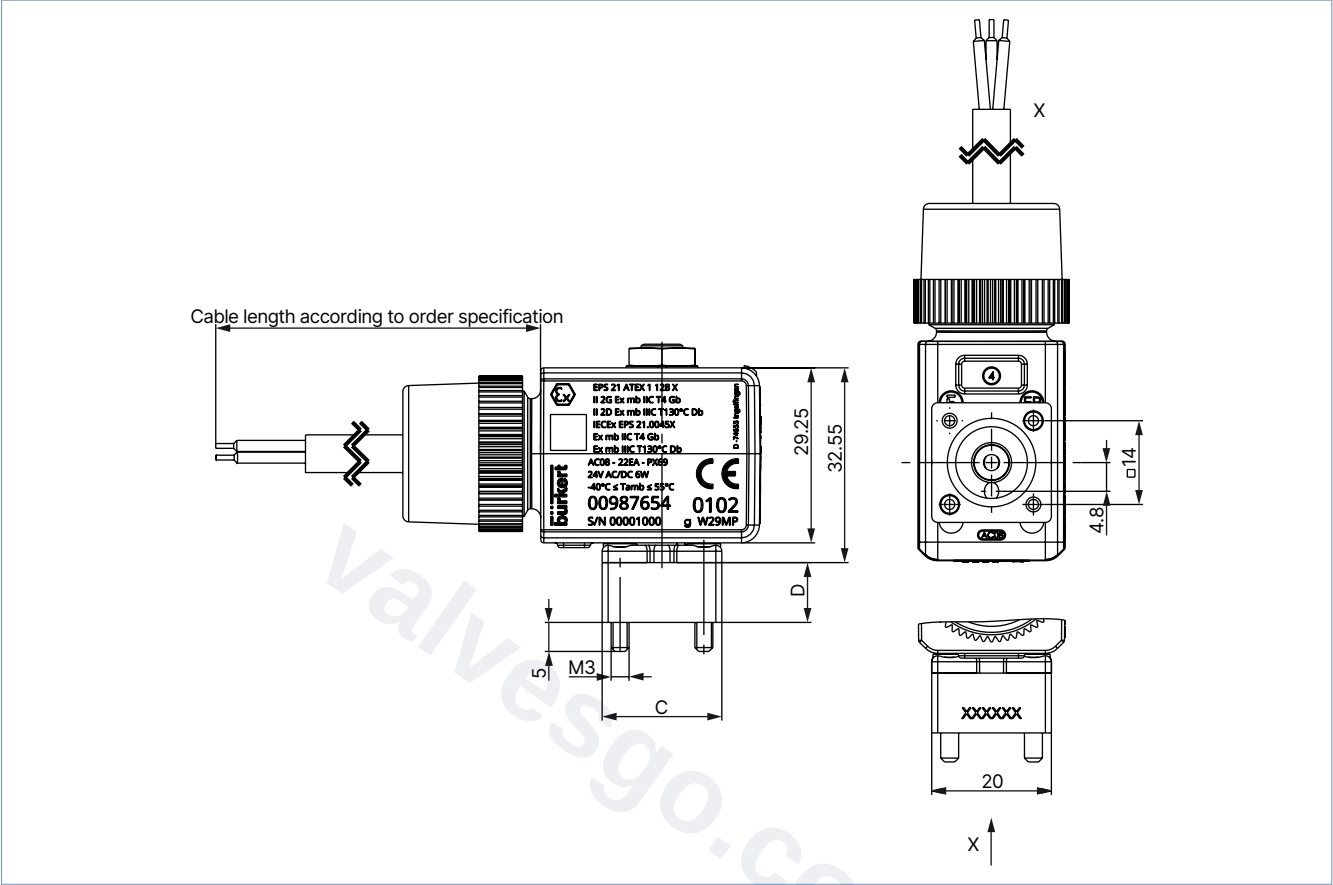


| Port connection | A     | B    | C    | D    |
|-----------------|-------|------|------|------|
|                 |       | [mm] | [mm] | [mm] |
| Thread          | M5    | 5    | 20   | 10   |
| Thread          | G 1/8 | 8    | 25   | 15   |

Type 7011

Flange variant

**Note:**  
Dimensions in mm



| Port connection | A | B    | C    | D    |
|-----------------|---|------|------|------|
|                 |   | [mm] | [mm] | [mm] |
| Flange CF A     | - | -    | 20   | 11   |
| Flange CF B     | - | -    | 25   | 15   |

**Note:**

- [illegible]

### **Variants according to industry standard form B**

**Note:**

Dimensions in mm

**Coil size 2 (20 mm)**

Dimensions: 14.9, 8.5, 2.8, 6.4, 10, 12, 30.45, 29.25, 20.1, 11.

Labels: AC08 - 25AB, 00987654, S/N 00001000, UKCA EAC, GL7 IQY Crencaster D-74653 Ingelfingen, CE, e coil, W29MP.

**Coil size 3 (24.5 mm)**

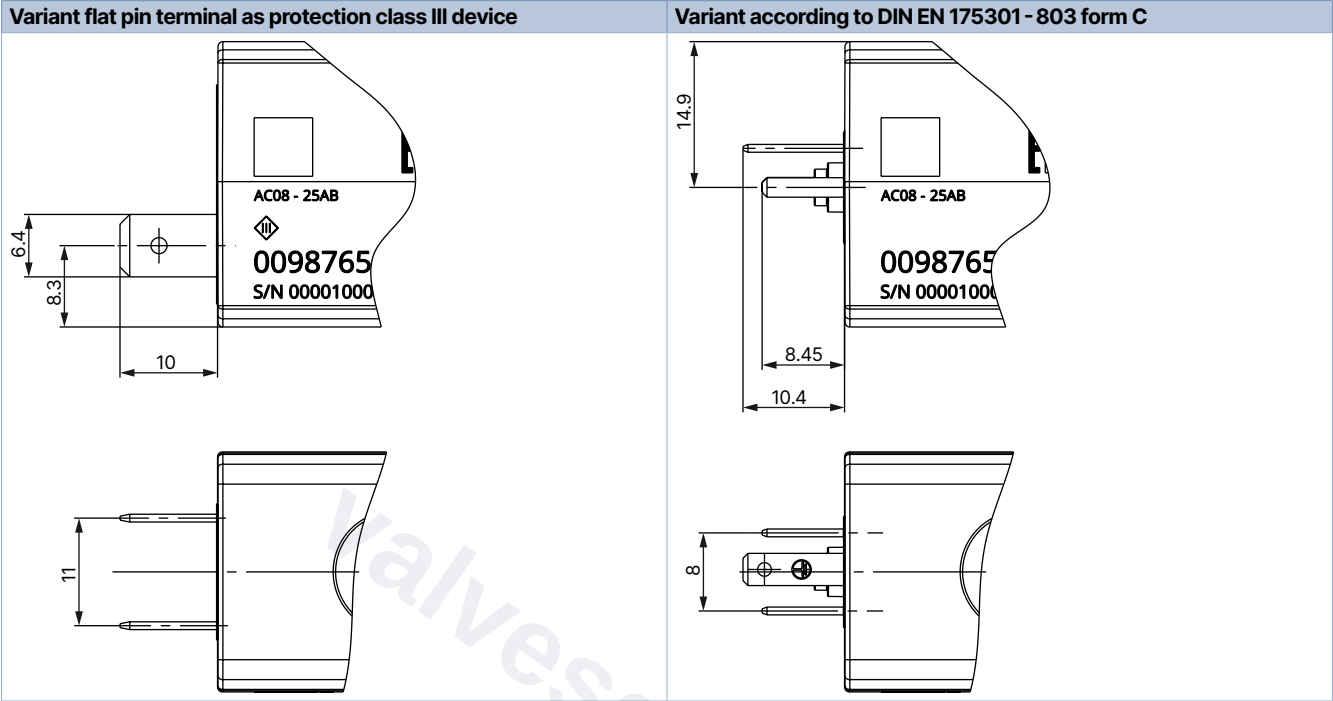
Dimensions: 14.9, 8.5, 2.8, 6.4, 10, 12, 34.5, 29.25, 24.6, 11.

Labels: AC08 - 25AB, 00987654, S/N 00001000, UKCA EAC, GL7 IQY Crencaster D-74653 Ingelfingen, CE, e coil, W29MP.

Further electrical connections

Note:

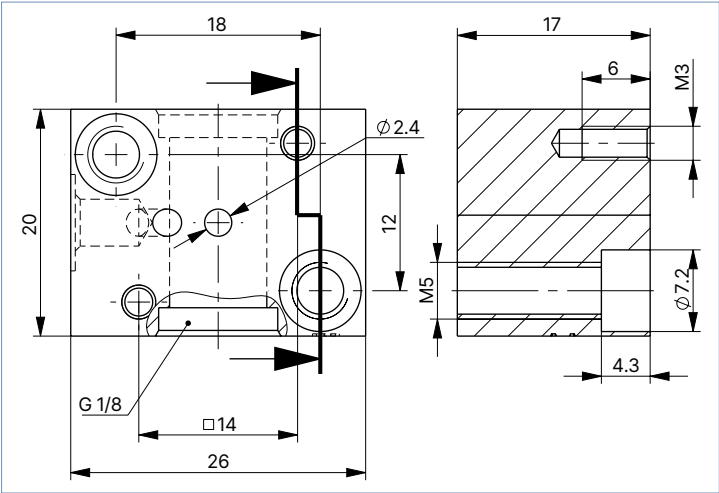
- Dimensions in mm
- Specifications apply to coil sizes 20 mm and 24.5 mm



5.4. Single manifold

Note:

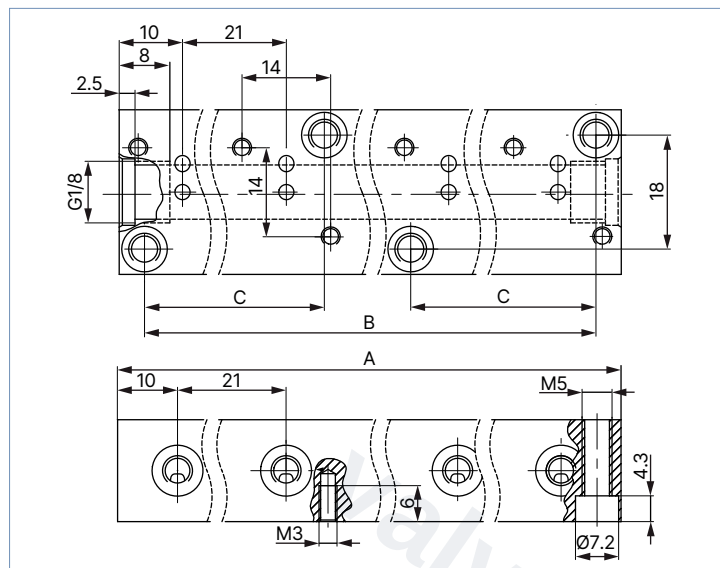
Dimensions in mm



| Quantity of valve slots | A [mm] | B [mm] | C [mm] | Article no. |
|-------------------------|--------|--------|--------|-------------|
| 1                       | 20     | 12     | –      | 005312 𐀀    |

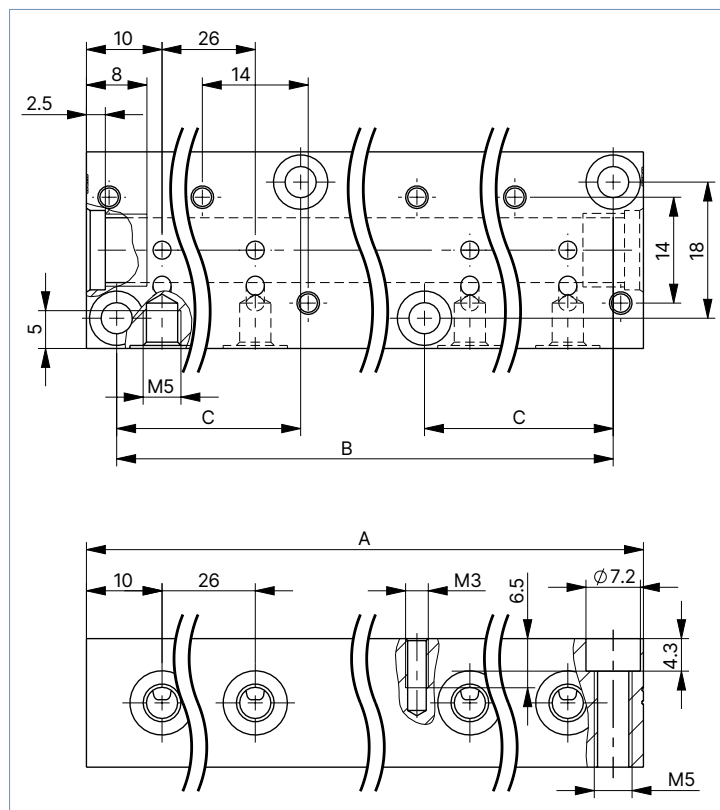
### Manifolds for valves with 20 mm coil (SG2)

- Dimensions in mm
- Can only be combined with Type 7011 valves with coil size 20 mm



| Quantity of valve slots | A    | B    | C    | Article no.                                                                                |
|-------------------------|------|------|------|--------------------------------------------------------------------------------------------|
|                         | [mm] | [mm] | [mm] |                                                                                            |
| 2                       | 41   | 33   | —    | 005355  |
| 3                       | 62   | 54   | —    | 005313  |
| 4                       | 83   | 75   | —    | 005314  |
| 5                       | 104  | 96   | —    | 005315  |
| 6                       | 125  | 117  | —    | 005316  |
| 7                       | 146  | 138  | —    | 005893  |
| 8                       | 167  | 159  | 54   | 005166  |
| 9                       | 188  | 180  | 54   | 005241  |
| 10                      | 209  | 201  | 75   | 005819  |
| 11                      | 230  | 222  | 75   | 005242  |
| 12                      | 251  | 243  | 96   | 005222  |

- Dimensions in mm
- Can be combined with Type 7011 valves with coil size 24.5 mm resp. for Type 7011 valves with CF B

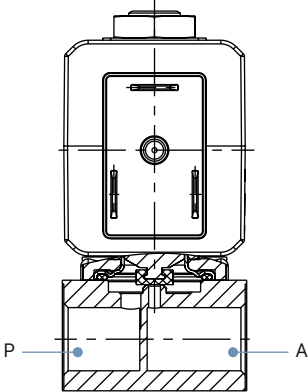
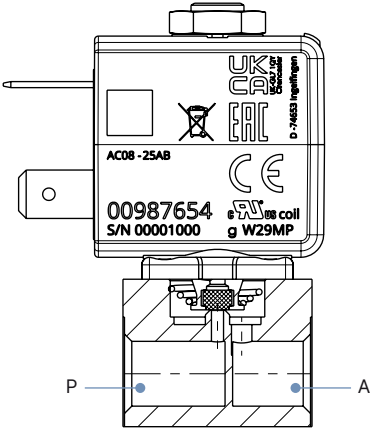
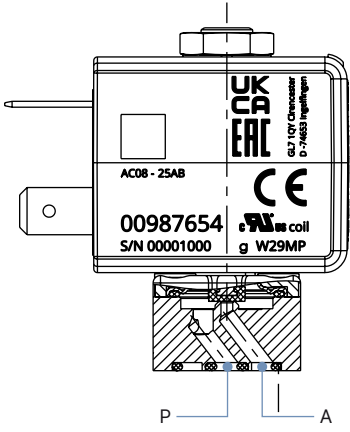
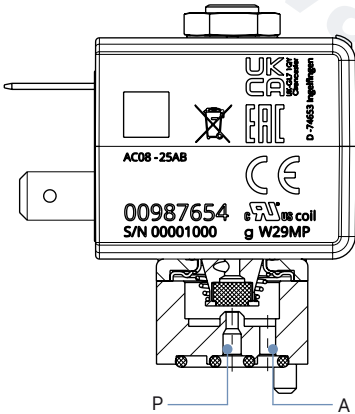
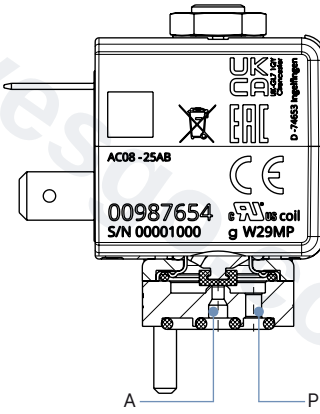
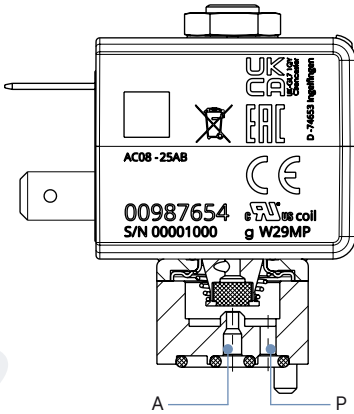
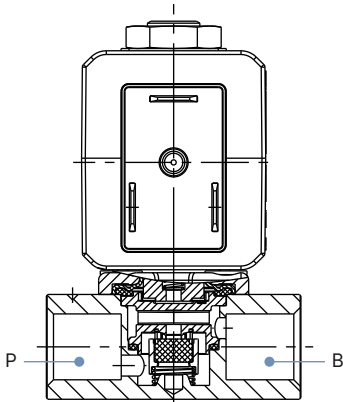
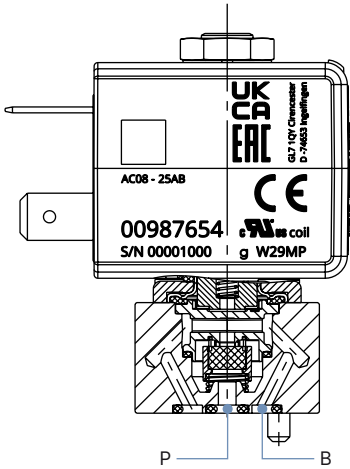
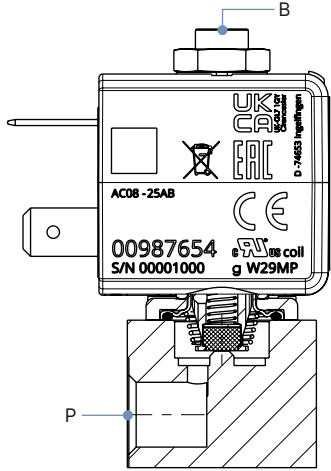


| Quantity of valve slots | A    | B    | C    | Article no.                                                                                    |
|-------------------------|------|------|------|------------------------------------------------------------------------------------------------|
|                         | [mm] | [mm] | [mm] |                                                                                                |
| 2                       | 46   | 38   | –    | 60021427  |
| 3                       | 72   | 64   | –    | 60021342  |
| 4                       | 98   | 90   | –    | 60021429  |
| 5                       | 124  | 116  | –    | 60021428  |
| 6                       | 150  | 142  | –    | 60021442  |
| 7                       | 176  | 168  | –    | 20060327  |
| 8                       | 202  | 194  | 64   | 20060338  |
| 9                       | 228  | 220  | 64   | 20060341  |
| 10                      | 254  | 246  | 90   | 20015744  |
| 11                      | 280  | 272  | 90   | 20060374  |
| 12                      | 306  | 298  | 116  | 20060376  |

6. Product connections

6.1. Port connection

Pin assignment

| Threaded variant CF A                                                               | Threaded variant CF A (+MC14)                                                       | Flange variant CF A                                                                   |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|    |   |    |
| Flange variant CF A (+MC14)                                                         | Flange variant CF A (+AA05)                                                         | Flange variant CF A (+AC45+AD33 / +AD33+NA02)                                         |
|   |   |   |
| Threaded variant CF B                                                               | Flange variant CF B                                                                 | Flange variant CF B (+AD01)                                                           |
|  |  |  |

DTS 1000446515 EN Version: L Status: RL (released | freigegeben | valide) printed: 18.02.2026

### Pin assignment vacuum applications

In vacuum applications the existing flow direction must be maintained. Vacuum must therefore always be applied to A.  
 (Other terminal assignment on request)

## 7. Performance specifications

### 7.1. Power consumption

Standard variant, coil size 24.5 mm

| Coil            | Orifice<br>[mm] | Electrical power  |                 |     |                |          | Switching times <sup>1.)</sup> |                 |
|-----------------|-----------------|-------------------|-----------------|-----|----------------|----------|--------------------------------|-----------------|
|                 |                 | Inrush AC<br>[VA] | Hold AC<br>[VA] | [W] | DC<br>Cold [W] | Warm [W] | Opening<br>[ms]                | Closing<br>[ms] |
| 24 V/DC/7 W     | 1.2             | –                 | –               | –   | 7              | 5.5      | 8...15                         | 10...17         |
|                 | 1.6             |                   |                 |     |                |          |                                |                 |
|                 | 2.0             |                   |                 |     |                |          |                                |                 |
|                 | 2.4             |                   |                 |     |                |          |                                |                 |
| 24 V/50 Hz/6 W  | 1.2             | 14                | 8               | 6   | –              | –        |                                |                 |
|                 | 1.6             |                   |                 |     |                |          |                                |                 |
|                 | 2.0             |                   |                 |     |                |          |                                |                 |
|                 | 2.4             |                   |                 |     |                |          |                                |                 |
| 230 V/50 Hz/6 W | 1.2             | 14                | 8               | 6   | –              | –        |                                |                 |
|                 | 1.6             |                   |                 |     |                |          |                                |                 |
|                 | 2.0             |                   |                 |     |                |          |                                |                 |
|                 | 2.4             |                   |                 |     |                |          |                                |                 |
| 24 V/DC/5.5 W   | 1.2             | –                 | –               | –   | 5.5            | 4.5      |                                |                 |
|                 | 1.6             |                   |                 |     |                |          |                                |                 |
|                 | 2.0             |                   |                 |     |                |          |                                |                 |
|                 | 2.4             |                   |                 |     |                |          |                                |                 |
| 24 V/50 Hz/4 W  | 1.2             | 12                | 6.5             | 4   | –              | –        |                                |                 |
|                 | 1.6             |                   |                 |     |                |          |                                |                 |
|                 | 2.0             |                   |                 |     |                |          |                                |                 |
|                 | 2.4             |                   |                 |     |                |          |                                |                 |
| 230 V/50 Hz/4 W | 1.2             | 12                | 6.5             | 4   | –              | –        |                                |                 |
|                 | 1.6             |                   |                 |     |                |          |                                |                 |
|                 | 2.0             |                   |                 |     |                |          |                                |                 |
|                 | 2.4             |                   |                 |     |                |          |                                |                 |
| 24 V/DC/14 W    | 1.2             | –                 | –               | –   | 14             | 11       |                                |                 |
|                 | 1.6             |                   |                 |     |                |          |                                |                 |
|                 | 2.0             |                   |                 |     |                |          |                                |                 |
|                 | 2.4             |                   |                 |     |                |          |                                |                 |
| 24 V/DC/11 W    | 1.2             | –                 | –               | –   | 11             | 8.5      |                                |                 |
|                 | 1.6             |                   |                 |     |                |          |                                |                 |
|                 | 2.0             |                   |                 |     |                |          |                                |                 |
|                 | 2.4             |                   |                 |     |                |          |                                |                 |

1.) Measurement at +20 °C, 6 bar<sup>2.)</sup> at the valve outlet acc. to DIN ISO 12238:2001, opening: pressure build-up 0...10 %, closing: pressure reduction 100...90 %

2.) Pressure data: Overpressure to atmospheric pressure and air as a medium

## Standard variant, coil size 20 mm

| Coil                | Orifice | Electrical power |         |     |          |          | Switching times <sup>1)</sup> |         |
|---------------------|---------|------------------|---------|-----|----------|----------|-------------------------------|---------|
|                     |         | Inrush AC        | Hold AC |     | DC       |          | Opening                       | Closing |
|                     | [mm]    | [VA]             | [VA]    | [W] | Cold [W] | Warm [W] | [ms]                          | [ms]    |
| 24 V / DC / 6.5 W   | 1.2     | –                | –       | –   | 6.5      | 5        | 8...15                        | 10...17 |
|                     | 1.6     |                  |         |     |          |          |                               |         |
|                     | 2.0     |                  |         |     |          |          |                               |         |
|                     | 2.4     |                  |         |     |          |          |                               |         |
| 24 V / 50 Hz / 6 W  | 1.2     | 11               | 7       | 6   | –        | –        |                               |         |
|                     | 1.6     |                  |         |     |          |          |                               |         |
|                     | 2.0     |                  |         |     |          |          |                               |         |
|                     | 2.4     |                  |         |     |          |          |                               |         |
| 230 V / 50 Hz / 6 W | 1.2     | 11               | 7       | 6   | –        | –        |                               |         |
|                     | 1.6     |                  |         |     |          |          |                               |         |
|                     | 2.0     |                  |         |     |          |          |                               |         |
|                     | 2.4     |                  |         |     |          |          |                               |         |
| 24 V / DC / 5 W     | 1.2     | –                | –       | –   | 5        | 4        |                               |         |
|                     | 1.6     |                  |         |     |          |          |                               |         |
|                     | 2.0     |                  |         |     |          |          |                               |         |
|                     | 2.4     |                  |         |     |          |          |                               |         |
| 24 V / 50 Hz / 4 W  | 1.2     | 9                | 5       | 4   | –        | –        |                               |         |
|                     | 1.6     |                  |         |     |          |          |                               |         |
|                     | 2.0     |                  |         |     |          |          |                               |         |
|                     | 2.4     |                  |         |     |          |          |                               |         |
| 230 V / 50 Hz / 4 W | 1.2     | 9                | 5       | 4   | –        | –        |                               |         |
|                     | 1.6     |                  |         |     |          |          |                               |         |
|                     | 2.0     |                  |         |     |          |          |                               |         |
|                     | 2.4     |                  |         |     |          |          |                               |         |
| 24 V / DC / 14 W    | 1.2     | –                | –       | –   | 14       | 11       |                               |         |
|                     | 1.6     |                  |         |     |          |          |                               |         |
|                     | 2.0     |                  |         |     |          |          |                               |         |
|                     | 2.4     |                  |         |     |          |          |                               |         |
| 24 V / DC / 11 W    | 1.2     | –                | –       | –   | 11       | 9        |                               |         |
|                     | 1.6     |                  |         |     |          |          |                               |         |
|                     | 2.0     |                  |         |     |          |          |                               |         |
|                     | 2.4     |                  |         |     |          |          |                               |         |

- 1.) Measurement at + 20 °C, 6 bar<sup>2.)</sup> at the valve outlet acc. to DIN ISO 12238:2001, opening: pressure build-up 0...10 %, closing: pressure reduction 100...90 %  
 2.) Pressure data: Overpressure to atmospheric pressure and air as a medium

## 8. Ordering information

### 8.1. Bürkert eShop



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### 8.2. Bürkert product filter

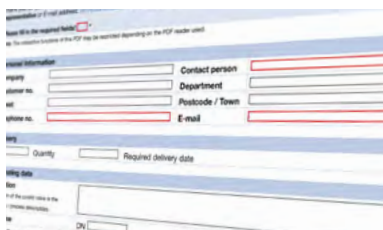


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### 8.3. Bürkert Product Enquiry Form



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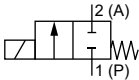
[Fill out the form now](#)

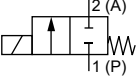
## 8.4. Ordering chart

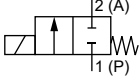
Standard variant according to industry standard form B, coil size 24.5 mm

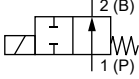
### Note:

All valves are delivered without a cable plug.

| Circuit function                                                                                                                                               | Port connection | Orifice | K <sub>v</sub> value water <sup>1)</sup> | Voltage/ Frequency/ Power | Maximum duty cycle | Pressure range <sup>2)</sup> |           |                            |           | Article no. |                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|------------------------------------------|---------------------------|--------------------|------------------------------|-----------|----------------------------|-----------|-------------|----------------------|
|                                                                                                                                                                |                 |         |                                          |                           |                    | Ambient temperature +75 °C   |           | Ambient temperature +55 °C |           | Brass body  | Stainless steel body |
|                                                                                                                                                                |                 | [mm]    | [m³/h]                                   | [V/Hz/W]                  |                    | Water [bar]                  | Air [bar] | Water [bar]                | Air [bar] |             |                      |
| <b>CF A</b><br>2/2-way solenoid valve<br>Direct-acting<br>Normally closed<br> | M5              | 1.2     | 0.045                                    | 24/DC/7                   | 100 % ED           | –                            | –         | 0...23                     | 0...23    | 380543      | 389721               |
|                                                                                                                                                                |                 |         |                                          | 24/50/6                   |                    | –                            | –         | 0...45                     | 0...45    | 389723      | 389726               |
|                                                                                                                                                                |                 |         |                                          | 230/50/6                  |                    | –                            | –         | 0...45                     | 0...45    | 389738      | 389739               |
|                                                                                                                                                                |                 |         |                                          | 24/DC/5.5                 |                    | 0...16                       | 0...16    | –                          | –         | 389740      | 389742               |
|                                                                                                                                                                |                 |         |                                          | 24/DC/5.5                 |                    | –                            | –         | 0...19                     | 0...19    | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/50/4                   |                    | 0...42                       | 0...42    | 0...42                     | 0...42    | 389744      | 389746               |
|                                                                                                                                                                |                 |         |                                          | 230/50/4                  |                    | 0...42                       | 0...42    | 0...42                     | 0...42    | 389751      | 389750               |
|                                                                                                                                                                |                 |         |                                          | 24/DC/14                  | 50 % ED            | –                            | –         | 0...45                     | 0...45    | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/11                  |                    | 0...35                       | 0...35    | –                          | –         | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/11                  |                    | –                            | –         | 0...37                     | 0...37    | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/7                   | 100 % ED           | –                            | –         | 0...12                     | 0...13    | 385450      | 389753               |
|                                                                                                                                                                |                 | 1.6     | 0.060                                    | 24/50/6                   |                    | –                            | –         | 0...30                     | 0...30    | 389757      | 389755               |
|                                                                                                                                                                |                 |         |                                          | 230/50/6                  |                    | –                            | –         | 0...30                     | 0...30    | 389759      | 389761               |
|                                                                                                                                                                |                 |         |                                          | 24/DC/5.5                 |                    | 0...9                        | 0...9     | –                          | –         | 389765      | 389762               |
|                                                                                                                                                                |                 |         |                                          | 24/DC/5.5                 |                    | –                            | –         | 0...10.5                   | 0...10.5  | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/50/4                   |                    | 0...24                       | 0...24    | 0...24                     | 0...24    | 389781      | 389783               |
|                                                                                                                                                                |                 |         |                                          | 230/50/4                  |                    | 0...24                       | 0...24    | 0...24                     | 0...24    | 389786      | 389785               |
|                                                                                                                                                                |                 |         |                                          | 24/DC/14                  | 50 % ED            | –                            | –         | 0...25                     | 0...25    | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/11                  |                    | 0...20                       | 0...20    | –                          | –         | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/11                  |                    | –                            | –         | 0...22                     | 0...22    | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/7                   | 100 % ED           | –                            | –         | 0...9                      | 0...9     | 385455      | 389787               |
|                                                                                                                                                                |                 | 2.0     | 0.110                                    | 24/50/6                   |                    | –                            | –         | 0...22                     | 0...22    | 389791      | 389789               |
|                                                                                                                                                                |                 |         |                                          | 230/50/6                  |                    | –                            | –         | 0...22                     | 0...22    | 389793      | 389794               |
|                                                                                                                                                                |                 |         |                                          | 24/DC/5.5                 |                    | 0...6.5                      | 0...6.5   | –                          | –         | 389797      | 389795               |
|                                                                                                                                                                |                 |         |                                          | 24/DC/5.5                 |                    | –                            | –         | 0...7                      | 0...7     | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/50/4                   |                    | 0...18                       | 0...18    | 0...18                     | 0...18    | 389799      | 393079               |
|                                                                                                                                                                |                 |         |                                          | 230/50/4                  |                    | 0...18                       | 0...18    | 0...18                     | 0...18    | 389801      | 389802               |
|                                                                                                                                                                |                 |         |                                          | 24/DC/14                  | 50 % ED            | –                            | –         | 0...19                     | 0...19    | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/11                  |                    | 0...14                       | 0...14    | –                          | –         | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/11                  |                    | –                            | –         | 0...16                     | 0...16    | o. r.       | o. r.                |
|                                                                                                                                                                |                 | 2.4     | 0.130                                    | 24/DC/7                   | 100 % ED           | –                            | –         | 0...3.5                    | 0...5     | 385457      | 389805               |
|                                                                                                                                                                |                 |         |                                          | 24/50/6                   |                    | –                            | –         | 0...13                     | 0...13    | 389807      | 389809               |
|                                                                                                                                                                |                 |         |                                          | 230/50/6                  |                    | –                            | –         | 0...13                     | 0...13    | 389811      | 389812               |
|                                                                                                                                                                |                 |         |                                          | 24/DC/5.5                 |                    | 0...3                        | 0...3.5   | –                          | –         | 389813      | 389815               |
|                                                                                                                                                                |                 |         |                                          | 24/DC/5.5                 |                    | –                            | –         | 0...3.5                    | 0...4     | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/50/4                   |                    | 0...10                       | 0...10    | 0...10                     | 0...10    | 389817      | 389819               |
|                                                                                                                                                                |                 |         |                                          | 230/50/4                  |                    | 0...10                       | 0...10    | 0...10                     | 0...10    | 389821      | 389822               |
|                                                                                                                                                                |                 |         |                                          | 24/DC/14                  | 50 % ED            | –                            | –         | 0...9                      | 0...10    | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/11                  |                    | 0...6.5                      | 0...7     | –                          | –         | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/11                  |                    | –                            | –         | 0...7.5                    | 0...8     | o. r.       | o. r.                |

| Circuit function                                                                                                                                                  | Port connection | Orifice | K <sub>v</sub> value water <sup>1)</sup> | Voltage/<br>Frequency/<br>Power | Maximum<br>duty cycle | Pressure range <sup>2)</sup>   |              |                                |              | Article no. |                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|------------------------------------------|---------------------------------|-----------------------|--------------------------------|--------------|--------------------------------|--------------|-------------|-------------------------|
|                                                                                                                                                                   |                 |         |                                          |                                 |                       | Ambient temperature<br>+ 75 °C |              | Ambient temperature<br>+ 55 °C |              | Brass body  | Stainless<br>steel body |
|                                                                                                                                                                   |                 | [mm]    | [m³/h]                                   | [V/Hz/W]                        |                       | Water<br>[bar]                 | Air<br>[bar] | Water<br>[bar]                 | Air<br>[bar] |             |                         |
| <b>CF A</b><br>2/2-way solenoid<br>valve<br>Direct-acting<br>Normally closed<br> | G 1/8           | 1.2     | 0.045                                    | 24/DC/7                         | 100 % ED              | –                              | –            | 0...23                         | 0...23       | 375821      | 375828                  |
|                                                                                                                                                                   |                 |         |                                          | 24/50/6                         |                       | –                              | –            | 0...45                         | 0...45       | 389532      | 389540                  |
|                                                                                                                                                                   |                 |         |                                          | 230/50/6                        |                       | –                              | –            | 0...45                         | 0...45       | 375968      | 375979                  |
|                                                                                                                                                                   |                 |         |                                          | 24/DC/5.5                       |                       | 0...16                         | 0...16       | –                              | –            | 375852      | 375860                  |
|                                                                                                                                                                   |                 |         |                                          | 24/DC/5.5                       |                       | –                              | –            | 0...19                         | 0...19       | o. r.       | o. r.                   |
|                                                                                                                                                                   |                 |         |                                          | 24/50/4                         |                       | 0...42                         | 0...42       | 0...42                         | 0...42       | 389537      | 389544                  |
|                                                                                                                                                                   |                 |         |                                          | 230/50/4                        |                       | 0...42                         | 0...42       | 0...42                         | 0...42       | 376005      | 376013                  |
|                                                                                                                                                                   |                 |         |                                          | 24/DC/14                        | 50 % ED               | –                              | –            | 0...45                         | 0...45       | o. r.       | o. r.                   |
|                                                                                                                                                                   |                 |         |                                          | 24/DC/11                        |                       | 0...35                         | 0...35       | –                              | –            | o. r.       | o. r.                   |
|                                                                                                                                                                   |                 |         |                                          | 24/DC/11                        |                       | –                              | –            | 0...37                         | 0...37       | o. r.       | o. r.                   |
|                                                                                                                                                                   |                 | 1.6     | 0.060                                    | 24/DC/7                         | 100 % ED              | –                              | –            | 0...12                         | 0...13       | 374309      | 375829                  |
|                                                                                                                                                                   |                 |         |                                          | 24/50/6                         |                       | –                              | –            | 0...30                         | 0...30       | 389657      | 389658                  |
|                                                                                                                                                                   |                 |         |                                          | 230/50/6                        |                       | –                              | –            | 0...30                         | 0...30       | 375969      | 375980                  |
|                                                                                                                                                                   |                 |         |                                          | 24/DC/5.5                       |                       | 0...9                          | 0...9        | –                              | –            | 375853      | 375861                  |
|                                                                                                                                                                   |                 |         |                                          | 24/DC/5.5                       |                       | –                              | –            | 0...10.5                       | 0...10.5     | o. r.       | o. r.                   |
|                                                                                                                                                                   |                 |         |                                          | 24/50/4                         |                       | 0...24                         | 0...24       | 0...24                         | 0...24       | 389661      | 389662                  |
|                                                                                                                                                                   |                 |         |                                          | 230/50/4                        |                       | 0...24                         | 0...24       | 0...24                         | 0...24       | 376006      | 376015                  |
|                                                                                                                                                                   |                 |         |                                          | 24/DC/14                        | 50 % ED               | –                              | –            | 0...25                         | 0...25       | o. r.       | o. r.                   |
|                                                                                                                                                                   |                 |         |                                          | 24/DC/11                        |                       | 0...20                         | 0...20       | –                              | –            | o. r.       | o. r.                   |
|                                                                                                                                                                   |                 |         |                                          | 24/DC/11                        |                       | –                              | –            | 0...22                         | 0...22       | o. r.       | o. r.                   |
|                                                                                                                                                                   |                 | 2.0     | 0.110                                    | 24/DC/7                         | 100 % ED              | –                              | –            | 0...9                          | 0...9        | 375822      | 375830                  |
|                                                                                                                                                                   |                 |         |                                          | 24/50/6                         |                       | –                              | –            | 0...22                         | 0...22       | 389677      | 389680                  |
|                                                                                                                                                                   |                 |         |                                          | 230/50/6                        |                       | –                              | –            | 0...22                         | 0...22       | 375970      | 375981                  |
|                                                                                                                                                                   |                 |         |                                          | 24/DC/5.5                       |                       | 0...6.5                        | 0...6.5      | –                              | –            | 375854      | 375862                  |
|                                                                                                                                                                   |                 |         |                                          | 24/DC/5.5                       |                       | –                              | –            | 0...7                          | 0...7        | o. r.       | o. r.                   |
|                                                                                                                                                                   |                 |         |                                          | 24/50/4                         |                       | 0...18                         | 0...18       | 0...18                         | 0...18       | 389672      | 389669                  |
|                                                                                                                                                                   |                 |         |                                          | 230/50/4                        |                       | 0...18                         | 0...18       | 0...18                         | 0...18       | 376007      | 376016                  |
|                                                                                                                                                                   |                 |         |                                          | 24/DC/14                        | 50 % ED               | –                              | –            | 0...19                         | 0...19       | o. r.       | o. r.                   |
|                                                                                                                                                                   |                 |         |                                          | 24/DC/11                        |                       | 0...14                         | 0...14       | –                              | –            | o. r.       | o. r.                   |
|                                                                                                                                                                   |                 |         |                                          | 24/DC/11                        |                       | –                              | –            | 0...16                         | 0...16       | o. r.       | o. r.                   |
|                                                                                                                                                                   |                 | 2.4     | 0.130                                    | 24/DC/7                         | 100 % ED              | –                              | –            | 0...3.5                        | 0...5        | 375823      | 375831                  |
|                                                                                                                                                                   |                 |         |                                          | 24/50/6                         |                       | –                              | –            | 0...13                         | 0...13       | 393638      | 393689                  |
|                                                                                                                                                                   |                 |         |                                          | 230/50/6                        |                       | –                              | –            | 0...13                         | 0...13       | 375971      | 375982                  |
|                                                                                                                                                                   |                 |         |                                          | 24/DC/5.5                       |                       | 0...3                          | 0...3.5      | –                              | –            | 375855      | 375863                  |
|                                                                                                                                                                   |                 |         |                                          | 24/DC/5.5                       |                       | –                              | –            | 0...3.5                        | 0...4        | o. r.       | o. r.                   |
|                                                                                                                                                                   |                 |         |                                          | 24/50/4                         |                       | 0...10                         | 0...10       | 0...10                         | 0...10       | 389696      | 389697                  |
|                                                                                                                                                                   |                 |         |                                          | 230/50/4                        |                       | 0...10                         | 0...10       | 0...10                         | 0...10       | 376008      | 376017                  |
|                                                                                                                                                                   |                 |         |                                          | 24/DC/14                        | 50 % ED               | –                              | –            | 0...9                          | 0...10       | o. r.       | o. r.                   |
|                                                                                                                                                                   |                 |         |                                          | 24/DC/11                        |                       | 0...6.5                        | 0...7        | –                              | –            | o. r.       | o. r.                   |
|                                                                                                                                                                   |                 |         |                                          | 24/DC/11                        |                       | –                              | –            | 0...7.5                        | 0...8        | o. r.       | o. r.                   |

| Circuit function                                                                                                                                                  | Port connection  | Orifice | K <sub>v</sub> value water <sup>1)</sup> | Voltage/<br>Frequency/<br>Power | Maximum<br>duty cycle | Pressure range <sup>2)</sup>   |              |                                |              | Article no. |                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------|------------------------------------------|---------------------------------|-----------------------|--------------------------------|--------------|--------------------------------|--------------|-------------|-------------------------|
|                                                                                                                                                                   |                  |         |                                          |                                 |                       | Ambient temperature<br>+ 75 °C |              | Ambient temperature<br>+ 55 °C |              | Brass body  | Stainless<br>steel body |
|                                                                                                                                                                   |                  | [mm]    | [m³/h]                                   | [V/Hz/W]                        |                       | Water<br>[bar]                 | Air<br>[bar] | Water<br>[bar]                 | Air<br>[bar] |             |                         |
| <b>CF A</b><br>2/2-way solenoid<br>valve<br>Direct-acting<br>Normally closed<br> | Flange<br>(FK01) | 1.2     | 0.045                                    | 24/DC/7                         | 100 % ED              | –                              | –            | 0...23                         | 0...23       | 375836      | 375844                  |
|                                                                                                                                                                   |                  |         |                                          | 24/50/6                         |                       | –                              | –            | 0...45                         | 0...45       | 389699      | 389700                  |
|                                                                                                                                                                   |                  |         |                                          | 230/50/6                        |                       | –                              | –            | 0...45                         | 0...45       | 375987      | 375996                  |
|                                                                                                                                                                   |                  |         |                                          | 24/DC/5.5                       |                       | 0...16                         | 0...16       | –                              | –            | 375868      | 375876                  |
|                                                                                                                                                                   |                  |         |                                          | 24/DC/5.5                       |                       | –                              | –            | 0...19                         | 0...19       | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  |         |                                          | 24/50/4                         |                       | 0...42                         | 0...42       | 0...42                         | 0...42       | 389704      | 389703                  |
|                                                                                                                                                                   |                  |         |                                          | 230/50/4                        |                       | 0...42                         | 0...42       | 0...42                         | 0...42       | 376023      | 376031                  |
|                                                                                                                                                                   |                  |         |                                          | 24/DC/14                        | 50 % ED               | –                              | –            | 0...45                         | 0...45       | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  |         |                                          | 24/DC/11                        |                       | 0...35                         | 0...35       | –                              | –            | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  |         |                                          | 24/DC/11                        |                       | –                              | –            | 0...37                         | 0...37       | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  | 1.6     | 0.060                                    | 24/DC/7                         | 100 % ED              | –                              | –            | 0...12                         | 0...13       | 375837      | 375845                  |
|                                                                                                                                                                   |                  |         |                                          | 24/50/6                         |                       | –                              | –            | 0...30                         | 0...30       | 389705      | 389706                  |
|                                                                                                                                                                   |                  |         |                                          | 230/50/6                        |                       | –                              | –            | 0...30                         | 0...30       | 375988      | 375997                  |
|                                                                                                                                                                   |                  |         |                                          | 24/DC/5.5                       |                       | 0...9                          | 0...9        | –                              | –            | 375869      | 375877                  |
|                                                                                                                                                                   |                  |         |                                          | 24/DC/5.5                       |                       | –                              | –            | 0...10.5                       | 0...10.5     | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  |         |                                          | 24/50/4                         |                       | 0...24                         | 0...24       | 0...24                         | 0...24       | 389708      | 389709                  |
|                                                                                                                                                                   |                  |         |                                          | 230/50/4                        |                       | 0...24                         | 0...24       | 0...24                         | 0...24       | 376024      | 376032                  |
|                                                                                                                                                                   |                  |         |                                          | 24/DC/14                        | 50 % ED               | –                              | –            | 0...25                         | 0...25       | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  |         |                                          | 24/DC/11                        |                       | 0...20                         | 0...20       | –                              | –            | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  |         |                                          | 24/DC/11                        |                       | –                              | –            | 0...22                         | 0...22       | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  | 2.0     | 0.110                                    | 24/DC/7                         | 100 % ED              | –                              | –            | 0...9                          | 0...9        | 375838      | 375846                  |
|                                                                                                                                                                   |                  |         |                                          | 24/50/6                         |                       | –                              | –            | 0...22                         | 0...22       | 389711      | 389712                  |
|                                                                                                                                                                   |                  |         |                                          | 230/50/6                        |                       | –                              | –            | 0...22                         | 0...22       | 375989      | 375999                  |
|                                                                                                                                                                   |                  |         |                                          | 24/DC/5.5                       |                       | 0...6.5                        | 0...6.5      | –                              | –            | 375870      | 375878                  |
|                                                                                                                                                                   |                  |         |                                          | 24/DC/5.5                       |                       | –                              | –            | 0...7                          | 0...7        | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  |         |                                          | 24/50/4                         |                       | 0...18                         | 0...18       | 0...18                         | 0...18       | 389714      | 389715                  |
|                                                                                                                                                                   |                  |         |                                          | 230/50/4                        |                       | 0...18                         | 0...18       | 0...18                         | 0...18       | 376025      | 376033                  |
|                                                                                                                                                                   |                  |         |                                          | 24/DC/14                        | 50 % ED               | –                              | –            | 0...19                         | 0...19       | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  |         |                                          | 24/DC/11                        |                       | 0...14                         | 0...14       | –                              | –            | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  |         |                                          | 24/DC/11                        |                       | –                              | –            | 0...16                         | 0...16       | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  | 2.4     | 0.130                                    | 24/DC/7                         | 100 % ED              | –                              | –            | 0...3.5                        | 0...5        | 375839      | 375847                  |
|                                                                                                                                                                   |                  |         |                                          | 24/50/6                         |                       | –                              | –            | 0...13                         | 0...13       | 389716      | 389717                  |
|                                                                                                                                                                   |                  |         |                                          | 230/50/6                        |                       | –                              | –            | 0...13                         | 0...13       | 375990      | 376000                  |
|                                                                                                                                                                   |                  |         |                                          | 24/DC/5.5                       |                       | 0...3                          | 0...3.5      | –                              | –            | 375871      | 375879                  |
|                                                                                                                                                                   |                  |         |                                          | 24/DC/5.5                       |                       | –                              | –            | 0...3.5                        | 0...4        | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  |         |                                          | 24/50/4                         |                       | 0...10                         | 0...10       | 0...10                         | 0...10       | 389719      | 389718                  |
|                                                                                                                                                                   |                  |         |                                          | 230/50/4                        |                       | 0...10                         | 0...10       | 0...10                         | 0...10       | 376026      | 376034                  |
|                                                                                                                                                                   |                  |         |                                          | 24/DC/14                        | 50 % ED               | –                              | –            | 0...9                          | 0...10       | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  |         |                                          | 24/DC/11                        |                       | 0...6.5                        | 0...7        | –                              | –            | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  |         |                                          | 24/DC/11                        |                       | –                              | –            | 0...7.5                        | 0...8        | o. r.       | o. r.                   |

| Circuit function                                                                                                                                             | Port connection | Orifice | K <sub>v</sub> value water <sup>1)</sup> | Voltage/Frequency/Power | Maximum duty cycle | Pressure range <sup>2)</sup> |              |                             |              | Article no. |                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|------------------------------------------|-------------------------|--------------------|------------------------------|--------------|-----------------------------|--------------|-------------|----------------------|
|                                                                                                                                                              |                 |         |                                          |                         |                    | Ambient temperature + 75 °C  |              | Ambient temperature + 55 °C |              | Brass body  | Stainless steel body |
|                                                                                                                                                              |                 | [mm]    | [m³/h]                                   | [V/Hz/W]                |                    | Water<br>[bar]               | Air<br>[bar] | Water<br>[bar]              | Air<br>[bar] |             |                      |
| <b>CF B</b><br>2/2-way solenoid valve<br>Direct-acting<br>Normally open<br> | G 1/8           | 2.0     | 0.100                                    | 24/DC/7                 | 100 % ED           | –                            | –            | –                           | 0...12       | 20007424    | o. r.                |
|                                                                                                                                                              |                 |         |                                          | 24/50/6                 |                    | –                            | –            | –                           | 0...14.5     | o. r.       | o. r.                |
|                                                                                                                                                              |                 |         |                                          | 230/50/6                |                    | –                            | –            | –                           | 0...14.5     | 20007106    | o. r.                |
|                                                                                                                                                              |                 |         |                                          | 24/DC/5.5               |                    | –                            | 0...10       | –                           | –            | 20007425    | o. r.                |
|                                                                                                                                                              |                 |         |                                          | 24/50/4                 |                    | –                            | 0...13       | –                           | –            | o. r.       | o. r.                |
|                                                                                                                                                              |                 |         |                                          | 230/50/4                |                    | –                            | 0...13       | –                           | –            | 20007423    | o. r.                |
|                                                                                                                                                              | Flange (FK01)   | 2.0     | 0.100                                    | 24/DC/7                 | 100 % ED           | –                            | –            | –                           | 0...12       | 20009528    | o. r.                |
|                                                                                                                                                              |                 |         |                                          | 24/50/6                 |                    | –                            | –            | –                           | 0...14.5     | o. r.       | o. r.                |
|                                                                                                                                                              |                 |         |                                          | 230/50/6                |                    | –                            | –            | –                           | 0...14.5     | 20009536    | o. r.                |
|                                                                                                                                                              |                 |         |                                          | 24/DC/5.5               |                    | –                            | 0...10       | –                           | –            | 20009530    | o. r.                |
|                                                                                                                                                              |                 |         |                                          | 24/50/4                 |                    | –                            | 0...13       | –                           | –            | o. r.       | o. r.                |
|                                                                                                                                                              |                 |         |                                          | 230/50/4                |                    | –                            | 0...13       | –                           | –            | 20009532    | o. r.                |

o. r. = on request

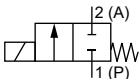
1.) Measurement at + 20 °C, 6 bar<sup>2)</sup> at the valve inlet and free outlet

2.) Pressure data: overpressure to atmospheric pressure and air as a medium

### DVGW variant

#### Note:

- With NBR seal and brass body (class B)
- According to gas appliance directive: valve class A, valve group 2

| Circuit function                                                                                                                                                 | Port connection | Orifice | K <sub>v</sub> value water <sup>1)</sup> | Voltage/Frequency/Power | Maximum duty cycle | Pressure range <sup>2)3)</sup> |  | Article no. |                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|------------------------------------------|-------------------------|--------------------|--------------------------------|--|-------------|----------------------|
|                                                                                                                                                                  |                 |         |                                          |                         |                    | Ambient temperature + 55 °C    |  | Brass body  | Stainless steel body |
|                                                                                                                                                                  |                 | [mm]    | [m³/h]                                   | [V/Hz/W]                |                    | Air<br>[bar]                   |  |             |                      |
| <b>CF A</b><br>2/2-way solenoid valve<br>Direct-acting<br>Normally closed<br> | G 1/8           | 1.2     | 0.040                                    | 24/DC/7                 | 100 % ED           | 0...23                         |  | 20010449    | o. r.                |
|                                                                                                                                                                  |                 |         |                                          | 24/DC/5.5               |                    | 0...19                         |  | 20010443    | o. r.                |
|                                                                                                                                                                  |                 |         | 0.045                                    | 24/50/4                 |                    | 0...42                         |  | –           | o. r.                |
|                                                                                                                                                                  |                 |         |                                          | 230/50/4                |                    | 0...42                         |  | 20010456    | o. r.                |
|                                                                                                                                                                  |                 | 1.6     | 0.055                                    | 24/DC/7                 | 100 % ED           | 0...13                         |  | 20010450    | o. r.                |
|                                                                                                                                                                  |                 |         |                                          | 24/DC/5.5               |                    | 0...10.5                       |  | 20009374    | o. r.                |
|                                                                                                                                                                  |                 |         | 0.060                                    | 24/50/4                 |                    | 0...24                         |  | –           | o. r.                |
|                                                                                                                                                                  |                 |         |                                          | 230/50/4                |                    | 0...24                         |  | 20010460    | o. r.                |
|                                                                                                                                                                  |                 | 2.0     | 0.070                                    | 24/DC/7                 | 100 % ED           | 0...9                          |  | 20010451    | o. r.                |
|                                                                                                                                                                  |                 |         |                                          | 24/DC/5.5               |                    | 0...7                          |  | 20010446    | o. r.                |
|                                                                                                                                                                  |                 |         | 0.110                                    | 24/50/4                 |                    | 0...18                         |  | –           | o. r.                |
|                                                                                                                                                                  |                 |         |                                          | 230/50/4                |                    | 0...18                         |  | 20010461    | o. r.                |
|                                                                                                                                                                  |                 | 2.4     | 0.090                                    | 24/DC/7                 | 100 % ED           | 0...5                          |  | 20010454    | o. r.                |
|                                                                                                                                                                  |                 |         |                                          | 24/DC/5.5               |                    | 0...4                          |  | 20010447    | o. r.                |
|                                                                                                                                                                  |                 |         | 0.130                                    | 24/50/6                 |                    | 0...10                         |  | –           | o. r.                |
|                                                                                                                                                                  |                 |         |                                          | 230/50/6                |                    | 0...10                         |  | 20010464    | o. r.                |

o. r. = on request

– = not available

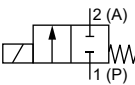
1.) Measurement at + 20 °C, 6 bar<sup>2)</sup> at the valve inlet and free outlet

2.) Pressure data: Overpressure to atmospheric pressure and air as a medium

## ATEX/IECEx cable variant

## Note:

- The maximum medium temperature must never exceed the permitted temperature class (T4: + 135 °C) minus 5 K.
- Only single mounting permissible
- Standard with 3 m cable, other lengths are available on request.

| Circuit function                                                                                                                                               | Port connection | Orifice | K <sub>v</sub> value water <sup>1.)</sup> | Voltage/Frequency/Power | Maximum duty cycle | Pressure range <sup>2.)3.)</sup> |        | Article no.                                                                                  |                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|-------------------------------------------|-------------------------|--------------------|----------------------------------|--------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
|                                                                                                                                                                |                 | [mm]    | [m³/h]                                    | [V/Hz/W]                |                    | Ambient temperature + 55 °C      |        | Brass body                                                                                   | Stainless steel body                                                                         |
|                                                                                                                                                                |                 |         |                                           |                         |                    | Water                            | Air    | FKM seal                                                                                     |                                                                                              |
|                                                                                                                                                                |                 |         |                                           |                         |                    | [bar]                            | [bar]  |                                                                                              |                                                                                              |
| <b>CF A</b><br>2/2-way solenoid valve<br>Direct-acting<br>Normally closed<br> | G 1/8           | 1.2     | 0.045                                     | 24 / AC/DC / 6          | 100 % ED           | 0...16                           | 0...16 | 20009727  | 20053228  |
|                                                                                                                                                                |                 |         |                                           | 24 / 50 / 6             |                    | 0...34                           | 0...34 | 20012934  | 20053229  |
|                                                                                                                                                                |                 |         |                                           | 230 / 50 / 6            |                    | 0...34                           | 0...34 | 20014398  | 20053230  |
|                                                                                                                                                                |                 | 1.6     | 0.060                                     | 24 / AC/DC / 6          | 100 % ED           | 0...10                           | 0...10 | 20009728  | 20030686  |
|                                                                                                                                                                |                 |         |                                           | 24 / 50 / 6             |                    | 0...18                           | 0...18 | 20012935  | 20053234  |
|                                                                                                                                                                |                 |         |                                           | 230 / 50 / 6            |                    | 0...18                           | 0...18 | 20014408  | 20053235  |
|                                                                                                                                                                |                 | 2.0     | 0.110                                     | 24 / AC/DC / 6          | 100 % ED           | 0...7                            | 0...7  | 20009725  | 20053236  |
|                                                                                                                                                                |                 |         |                                           | 24 / 50 / 6             |                    | 0...13                           | 0...13 | 20012931  | 20053237  |
|                                                                                                                                                                |                 |         |                                           | 230 / 50 / 6            |                    | 0...13                           | 0...13 | 20025748  | 20053240  |
|                                                                                                                                                                |                 | 2.4     | 0.130                                     | 24 / AC/DC / 6          | 100 % ED           | 0...3.5                          | 0...4  | 20009729  | 20053243  |
|                                                                                                                                                                |                 |         |                                           | 24 / 50 / 6             |                    | 0...6.5                          | 0...7  | 20012938  | 20053244  |
|                                                                                                                                                                |                 |         |                                           | 230 / 50 / 6            |                    | 0...6.5                          | 0...7  | 20014416  | 20053245  |

o. r. = on request

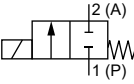
1.) Measurement at + 20 °C, 6 bar<sup>2.)</sup> at the valve inlet and free outlet

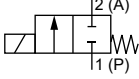
2.) Pressure data: overpressure to atmospheric pressure and air as a medium

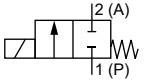
## Standard variant according to industry standard form B, coil size 20 mm

## Note:

All valves are delivered without a cable plug.

| Circuit function                                                                                                                                                 | Port connection | Orifice | K <sub>v</sub> value water <sup>1.)</sup> | Voltage/Frequency/Power | Maximum duty cycle | Pressure range <sup>2.)</sup> |                             | Article no. |                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|-------------------------------------------|-------------------------|--------------------|-------------------------------|-----------------------------|-------------|----------------------|
|                                                                                                                                                                  |                 |         |                                           |                         |                    | Ambient temperature + 75 °C   | Ambient temperature + 55 °C | Brass body  | Stainless steel body |
|                                                                                                                                                                  |                 | [mm]    | [m³/h]                                    | [V/Hz/W]                |                    | Air [bar]                     | Air [bar]                   | FKM seal    |                      |
| <b>CF A</b><br>2/2-way solenoid valve<br>Direct-acting<br>Normally closed<br> | M5              | 1.2     | 0.045                                     | 24 / DC / 6.5           | 100 % ED           | –                             | 0...13                      | o. r.       | o. r.                |
|                                                                                                                                                                  |                 |         |                                           | 24 / 50 / 6             |                    | –                             | 0...35                      | o. r.       | o. r.                |
|                                                                                                                                                                  |                 |         |                                           | 230 / 50 / 6            |                    | –                             | 0...35                      | o. r.       | o. r.                |
|                                                                                                                                                                  |                 |         |                                           | 24 / DC / 5             |                    | 0...9                         | –                           | o. r.       | o. r.                |
|                                                                                                                                                                  |                 |         |                                           | 24 / DC / 5             |                    | –                             | 0...11                      | o. r.       | o. r.                |
|                                                                                                                                                                  |                 |         |                                           | 24 / 50 / 4             |                    | 0...27                        | 0...27                      | o. r.       | o. r.                |
|                                                                                                                                                                  |                 |         |                                           | 230 / 50 / 4            |                    | 0...27                        | 0...27                      | o. r.       | o. r.                |
|                                                                                                                                                                  |                 |         |                                           | 24 / DC / 14            | 50 % ED            | –                             | 0...32                      | o. r.       | o. r.                |
|                                                                                                                                                                  |                 |         |                                           | 24 / DC / 11            |                    | 0...25                        | –                           | o. r.       | o. r.                |
|                                                                                                                                                                  |                 |         |                                           | 24 / DC / 11            |                    | –                             | 0...30                      | o. r.       | o. r.                |
|                                                                                                                                                                  |                 | 1.6     | 0.060                                     | 24 / DC / 6.5           | 100 % ED           | –                             | 0...8.5                     | o. r.       | o. r.                |
|                                                                                                                                                                  |                 |         |                                           | 24 / 50 / 6             |                    | –                             | 0...24                      | o. r.       | o. r.                |
|                                                                                                                                                                  |                 |         |                                           | 230 / 50 / 6            |                    | –                             | 0...24                      | o. r.       | o. r.                |
|                                                                                                                                                                  |                 |         |                                           | 24 / DC / 5             |                    | 0...5.5                       | –                           | o. r.       | o. r.                |
|                                                                                                                                                                  |                 |         |                                           | 24 / DC / 5             |                    | –                             | 0...6.5                     | o. r.       | o. r.                |
|                                                                                                                                                                  |                 |         |                                           | 24 / 50 / 4             |                    | 0...17                        | 0...17                      | o. r.       | o. r.                |
|                                                                                                                                                                  |                 |         |                                           | 230 / 50 / 4            |                    | 0...17                        | 0...17                      | o. r.       | o. r.                |
|                                                                                                                                                                  |                 |         |                                           | 24 / DC / 14            | 50 % ED            | –                             | 0...22                      | o. r.       | o. r.                |
|                                                                                                                                                                  |                 |         |                                           | 24 / DC / 11            |                    | 0...17                        | –                           | o. r.       | o. r.                |
|                                                                                                                                                                  |                 |         |                                           | 24 / DC / 11            |                    | –                             | 0...18                      | o. r.       | o. r.                |

| Circuit function                                                                                                                                               | Port connection | Orifice | K <sub>v</sub> value water <sup>1)</sup> | Voltage/Frequency/Power | Maximum duty cycle | Pressure range <sup>2)</sup> |                             | Article no. |                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|------------------------------------------|-------------------------|--------------------|------------------------------|-----------------------------|-------------|----------------------|
|                                                                                                                                                                |                 |         |                                          |                         |                    | Ambient temperature + 75 °C  | Ambient temperature + 55 °C | Brass body  | Stainless steel body |
|                                                                                                                                                                |                 | [mm]    | [m³/h]                                   |                         |                    | Air [bar]                    | Air [bar]                   | FKM seal    |                      |
| <b>CF A</b><br>2/2-way solenoid valve<br>Direct-acting<br>Normally closed<br> | M5              | 2.0     | 0.110                                    | 24/DC/6.5               | 100 % ED           | –                            | 0...6                       | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/50/6                 |                    | –                            | 0...14                      | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 230/50/6                |                    | –                            | 0...14                      | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/5                 |                    | 0...4                        | –                           | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/5                 |                    | –                            | 0...4.5                     | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/50/4                 |                    | 0...10                       | 0...10                      | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 230/50/4                |                    | 0...10                       | 0...10                      | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/14                | 50 % ED            | –                            | 0...15                      | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/11                |                    | 0...12                       | –                           | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/11                |                    | –                            | 0...13                      | o. r.       | o. r.                |
|                                                                                                                                                                |                 | 2.4     | 0.130                                    | 24/DC/6.5               | 100 % ED           | –                            | 0...3                       | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/50/6                 |                    | –                            | 0...9                       | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 230/50/6                |                    | –                            | 0...9                       | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/5                 |                    | 0...2                        | –                           | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/5                 |                    | –                            | 0...2.5                     | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/50/4                 |                    | 0...6.5                      | 0...6.5                     | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 230/50/4                |                    | 0...6.5                      | 0...6.5                     | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/14                | 50 % ED            | –                            | 0...8                       | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/11                |                    | 0...6                        | –                           | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/11                |                    | –                            | 0...6.5                     | o. r.       | o. r.                |
|                                                                                                                                                                | G 1/8           | 1.2     | 0.045                                    | 24/DC/6.5               | 100 % ED           | –                            | 0...13                      | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/50/6                 |                    | –                            | 0...35                      | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 230/50/6                |                    | –                            | 0...35                      | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/5                 |                    | 0...9                        | –                           | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/5                 |                    | –                            | 0...11                      | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/50/4                 |                    | 0...27                       | 0...27                      | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 230/50/4                |                    | 0...27                       | 0...27                      | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/14                | 50 % ED            | –                            | 0...32                      | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/11                |                    | 0...25                       | –                           | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/11                |                    | –                            | 0...30                      | o. r.       | o. r.                |
|                                                                                                                                                                | G 1/8           | 1.6     | 0.060                                    | 24/DC/6.5               | 100 % ED           | –                            | 0...8.5                     | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/50/6                 |                    | –                            | 0...24                      | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 230/50/6                |                    | –                            | 0...24                      | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/5                 |                    | 0...5.5                      | –                           | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/5                 |                    | –                            | 0...6.5                     | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/50/4                 |                    | 0...17                       | 0...17                      | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 230/50/4                |                    | 0...17                       | 0...17                      | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/14                | 50 % ED            | –                            | 0...22                      | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/11                |                    | 0...17                       | –                           | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/11                |                    | –                            | 0...18                      | o. r.       | o. r.                |
|                                                                                                                                                                |                 | 2.0     | 0.110                                    | 24/DC/6.5               | 100 % ED           | –                            | 0...6                       | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/50/6                 |                    | –                            | 0...14                      | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 230/50/6                |                    | –                            | 0...14                      | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/5                 |                    | 0...4                        | –                           | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/5                 |                    | –                            | 0...4.5                     | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/50/4                 |                    | 0...10                       | 0...10                      | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 230/50/4                | 50 % ED            | 0...10                       | 0...10                      | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/14                |                    | –                            | 0...15                      | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/11                |                    | 0...12                       | –                           | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/11                |                    | –                            | 0...13                      | o. r.       | o. r.                |

| Circuit function                                                                                                                                               | Port connection | Orifice | K <sub>v</sub> value water <sup>1)</sup> | Voltage/Frequency/Power | Maximum duty cycle | Pressure range <sup>2)</sup> |                             | Article no. |                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|------------------------------------------|-------------------------|--------------------|------------------------------|-----------------------------|-------------|----------------------|
|                                                                                                                                                                |                 |         |                                          |                         |                    | Ambient temperature + 75 °C  | Ambient temperature + 55 °C | Brass body  | Stainless steel body |
|                                                                                                                                                                |                 | [mm]    | [m³/h]                                   |                         |                    | Air [bar]                    | Air [bar]                   | FKM seal    |                      |
| <b>CF A</b><br>2/2-way solenoid valve<br>Direct-acting<br>Normally closed<br> | G 1/8           | 2.4     | 0.130                                    | 24/DC/6.5               | 100 % ED           | –                            | 0...3                       | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/50/6                 |                    | –                            | 0...9                       | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 230/50/6                |                    | –                            | 0...9                       | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/5                 |                    | 0...2                        | –                           | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/5                 |                    | –                            | 0...2.5                     | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/50/4                 |                    | 0...6.5                      | 0...6.5                     | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 230/50/4                |                    | 0...6.5                      | 0...6.5                     | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/14                | 50 % ED            | –                            | 0...8                       | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/11                |                    | 0...6                        | –                           | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/11                |                    | –                            | 0...6.5                     | o. r.       | o. r.                |
|                                                                                                                                                                | Flange (FK01)   | 1.2     | 0.045                                    | 24/DC/6.5               | 100 % ED           | –                            | 0...13                      | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/50/6                 |                    | –                            | 0...35                      | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 230/50/6                |                    | –                            | 0...35                      | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/5                 |                    | 0...9                        | –                           | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/5                 |                    | –                            | 0...11                      | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/50/4                 |                    | 0...27                       | 0...27                      | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 230/50/4                |                    | 0...27                       | 0...27                      | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/14                | 50 % ED            | –                            | 0...32                      | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/11                |                    | 0...25                       | –                           | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/11                |                    | –                            | 0...30                      | o. r.       | o. r.                |
|                                                                                                                                                                |                 | 1.6     | 0.060                                    | 24/DC/6.5               | 100 % ED           | –                            | 0...8.5                     | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/50/6                 |                    | –                            | 0...24                      | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 230/50/6                |                    | –                            | 0...24                      | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/5                 |                    | 0...5.5                      | –                           | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/5                 |                    | –                            | 0...6.5                     | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/50/4                 |                    | 0...17                       | 0...17                      | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 230/50/4                |                    | 0...17                       | 0...17                      | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/14                | 50 % ED            | –                            | 0...22                      | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/11                |                    | 0...17                       | –                           | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/11                |                    | –                            | 0...18                      | o. r.       | o. r.                |
|                                                                                                                                                                | Flange (FK01)   | 2.0     | 0.110                                    | 24/DC/6.5               | 100 % ED           | –                            | 0...6                       | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/50/6                 |                    | –                            | 0...14                      | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 230/50/6                |                    | –                            | 0...14                      | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/5                 |                    | 0...4                        | –                           | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/5                 |                    | –                            | 0...4.5                     | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/50/4                 |                    | 0...10                       | 0...10                      | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 230/50/4                |                    | 0...10                       | 0...10                      | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/14                | 50 % ED            | –                            | 0...15                      | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/11                |                    | 0...12                       | –                           | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/11                |                    | –                            | 0...13                      | o. r.       | o. r.                |
|                                                                                                                                                                |                 | 2.4     | 0.130                                    | 24/DC/6.5               | 100 % ED           | –                            | 0...3                       | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/50/6                 |                    | –                            | 0...9                       | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 230/50/6                |                    | –                            | 0...9                       | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/5                 |                    | 0...2                        | –                           | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/5                 |                    | –                            | 0...2.5                     | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/50/4                 |                    | 0...6.5                      | 0...6.5                     | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 230/50/4                |                    | 0...6.5                      | 0...6.5                     | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/14                | 50 % ED            | –                            | 0...8                       | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/11                |                    | 0...6                        | –                           | o. r.       | o. r.                |
|                                                                                                                                                                |                 |         |                                          | 24/DC/11                |                    | –                            | 0...6.5                     | o. r.       | o. r.                |

o. r. = on request

1.) Measurement at + 20 °C, 6 bar<sup>2)</sup> at the valve inlet and free outlet

2.) Pressure data: overpressure to atmospheric pressure and air as a medium

### Additional options

**Note:**

Available on request

| 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, grease and silicone-free | NL50/NL05     | Wetted parts are specially cleaned and packaged in accordance with the valves                                                            |
| Increased tightness requirements                                 | PC05          | Leakage rate *less than $10^{-4}$ mbar l/sec                                                                                             |
|                                                                  | PC08          | Leakage rate *less than $10^{-5}$ mbar l/sec                                                                                             |
|                                                                  | PC06          | Leakage rate *less than $10^{-6}$ mbar l/sec                                                                                             |

## 8.5. Ordering chart accessories

### Single manifold

**Note:**

Further ordering information can be found in chapter "5.4. Single manifold" on page 14.

### Multiple manifold

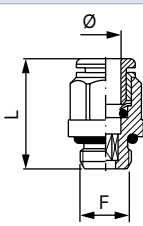
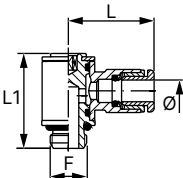
**Note:**

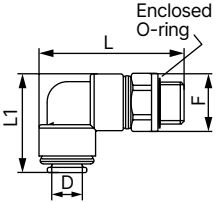
Further ordering information can be found in chapter "5.5. Multiple manifold" on page 15.

### Accessories for manifolds

| Accessory     | Features                      | Article no.                                                                                  |
|---------------|-------------------------------|----------------------------------------------------------------------------------------------|
| Threaded plug | With seal ring, G 1/8         | 005041  |
| Cover plate   | For unoccupied valve position | 005100  |

### Accessories for G 1/8 threaded connections

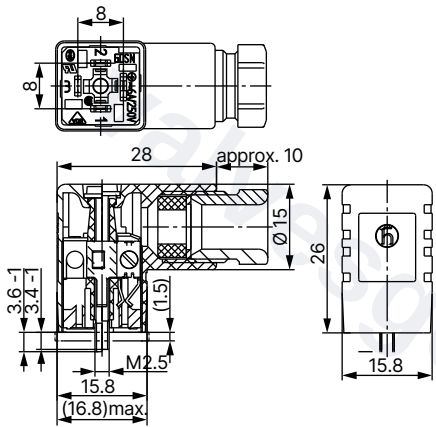
| Accessories                                                                         | Material            | Connection diameter | F     | L    | L1   | Article no.                                                                                  |
|-------------------------------------------------------------------------------------|---------------------|---------------------|-------|------|------|----------------------------------------------------------------------------------------------|
|                                                                                     |                     | [mm]                | [mm]  | [mm] | [mm] |                                                                                              |
| Straight push-in connector with O-ring                                              |                     |                     |       |      |      |                                                                                              |
|  | Nickel-plated brass | 4                   | G 1/8 | 18.0 | –    | 780001  |
|                                                                                     |                     | 6                   | G 1/8 | 21.6 | –    | 780003  |
|                                                                                     |                     | 8                   | G 1/8 | 25.4 | –    | 780005  |
| Elbow screw fitting, rotatable with O-ring                                          |                     |                     |       |      |      |                                                                                              |
|  | Nickel-plated brass | 4                   | G 1/8 | 21.3 | 24.9 | 780081  |
|                                                                                     |                     | 6                   | G 1/8 | 23.0 | 24.9 | 780082  |
|                                                                                     |                     | 8                   | G 1/8 | 24.8 | 24.9 | 780086  |

| Accessories                                                                       | Material | Connection diameter | F     | L    | L1   | Article no.                                                                                |
|-----------------------------------------------------------------------------------|----------|---------------------|-------|------|------|--------------------------------------------------------------------------------------------|
|                                                                                   |          | [mm]                | [mm]  | [mm] | [mm] |                                                                                            |
|  | POM      | 4                   | G 1/8 | 35.5 | 24.0 | 782344  |
|                                                                                   |          | 6                   | G 1/8 | 39.5 | 27.0 | 782345  |
|                                                                                   |          | 8                   | G 1/8 | 41.5 | 30.0 | 782346  |

**Cable plug Type 2516, form C according to DIN EN 175301 - 803**

**Note:**

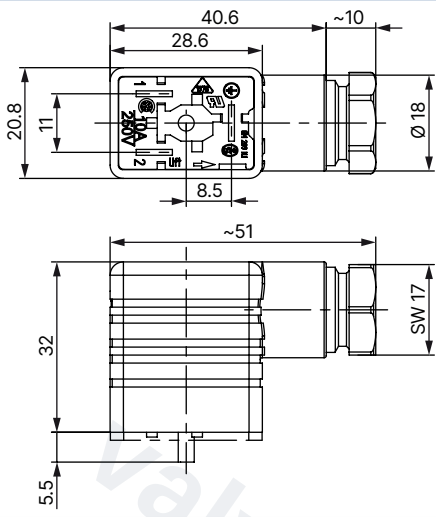
- Dimensions in mm
- Delivery of cable plug includes a flat seal and a fastening screw.
- For further variants see data sheet **Type 2516** 

| Cable plug                                                                         | Dimensions                                                                         | Variant                          | Voltage         | Article no.                                                                                |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------|-----------------|--------------------------------------------------------------------------------------------|
|  |  | Without wiring                   | 0...250 V AC/DC | 303141  |
|                                                                                    |                                                                                    | With LED                         | 12...24 V AC/DC | 303145  |
|                                                                                    |                                                                                    | With LED and varistor            | 12...24 V AC/DC | 303148  |
|                                                                                    |                                                                                    | With rectifier, LED and varistor | 12...24 V AC/DC | 303142  |

Cable plug Type 2507, form B according to industry standard

Note:

- Dimensions in mm
- Delivery of cable plug includes a flat seal and a fastening screw.
- Refer to data sheet **Type 2507** ▶ for more information about the cable plug.

| Cable plug                                                                        | Dimensions                                                                         | Variant                          | Voltage         | Article no.                                                                                |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------|-----------------|--------------------------------------------------------------------------------------------|
|  |  | Without wiring (standard)        | 2...250 V AC/DC | 423845  |
|                                                                                   |                                                                                    | With LED                         | 24 V AC/DC      | 423849  |
|                                                                                   |                                                                                    | With LED and free-wheeling diode | 12...24 V AC/DC | 423851  |
|                                                                                   |                                                                                    | With rectifier, LED and varistor | 12...24 V AC/DC | 423853  |
|                                                                                   |                                                                                    |                                  | 2...250 V AC/DC | 423854  |