



### Direct-acting 3/2-way plunger valve

- Direct-acting and compact small valve up to DN 1.6
- Slipped over coil system
- Banjo fitting for direct mounting on pneumatic valves
- Simple and fast push-in, flange or manifold mounting
- Explosion-proof variants

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

### Type description

The 7012 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 explosion-proof variants. Push-in fittings can be selected for a flexible hose connection. A banjo fitting with banjo bolt is the ideal solution for easy direct mounting on a pneumatic actuator. Optional manual override enables quick start-up and optimal maintenance. In combination with a plug to industry standard shape B or DIN EN 17301 - 803 shape C, the valves satisfy degree of protection IP65.



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## 1. General technical data

### 1.1. Standard and banjo 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), polyphenylene sulphide (PPS), stainless steel 1.4305/303                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Manual override                           | Optional, standard for Type 7012 banjo variant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Weight</b>                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Standard variant 24.5 mm solenoid coil    | 146 g (with G 1/8)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Standard variant 20 mm solenoid coil      | 120 g (with G 1/8)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Banjo variant                             | 135 g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Orifice                                   | DN 1.2...DN 2.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Circuit function                          | C and D<br>Further information can be found in chapter <a href="#">"2. Circuit functions" on page 5.</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Thermal insulation class of solenoid coil | Epoxy coil class H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Performance data                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Duty cycle</b>                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Single valve                              | 100 % resp. 50 % continuous operation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| For block mounting on multiple manifold   | With 4 W/5 W solenoid coil 100 % ED (at max. 55 °C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Switching time<sup>1)</sup></b>        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Standard variant                          | Orifice 1.2...1.6 mm: opening 8...12 ms, closing 8...12 ms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Banjo variant                             | Orifice 1.2 mm: opening 7...12 ms, closing 7...12 ms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Electrical data                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Operating voltage                         | 24 V DC, 24 V 50 Hz, 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 18.</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Voltage tolerance                         | ± 10 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Medium data                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Operating medium                          | Neutral gases and fluids (e.g. compressed air, water, hydraulic oil, technical vacuum)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Medium temperature</b>                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Standard variant                          | - 10 °C...+ 100 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Banjo variant                             | - 10 °C...+ 60 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Viscosity                                 | Max. 21 mm²/s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Process/Port connection and communication |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Electrical connection                     | <ul style="list-style-type: none"> <li>Plug contacts according to DIN EN 175301 - 80 form C for cable plug <b>Type 2516</b> ►. Further information can be found in chapter <a href="#">"Cable plug Type 2516, form C according to DIN EN 175301 - 803" on page 27.</a></li> <li>Plug contacts according to industry standard form B for cable plug <b>Type 2507</b> ►. Further information can be found in chapter <a href="#">"Cable plug Type 2507, form B according to industry standard" on page 28.</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> |
| <b>Port connection</b>                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Standard variant                          | M5, G 1/8, NPT 1/8, Flange                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Banjo variant                             | G 1/8, G 1/4, NPT 1/8, NPT 1/4 and hose connector Ø 6 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 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 6.</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**

Standard variant Max. + 55 °C resp. 75 °C (depending on power level)

Banjo variant - 10 °C...+ 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. ATEX/IECEx cable variant**
**Product properties**
**Material**

Seal FKM, EPDM

Body Brass, stainless steel 1.4305/303

 Circuit function A and B  
 Further information can be found in chapter **"2. Circuit functions"** on page 5.

Available coil size SG3 (24.5 mm width)

**Performance data**

Operating pressure Up to 34 bar (depending on orifice and coil power)

**Medium data**

Operating medium Neutral gases and fluids (e.g. compressed air, water, hydraulic oil, technical vacuum)

**Medium temperature<sup>1.)</sup>**

FKM - 10 °C...+ 100 °C

EPDM - 30 °C...+ 100 °C

**Process/Port connection and communication**

Electrical connection ATEX/IECEx cable variant with 3 m moulded-in cable

**Port connection**

Thread G 1/8, NPT 1/8, RC 1/8, M5, UNF 10 - 32

Flange Flange "FK01"

**Approvals and conformities**

Degree of protection IP65 with cable plug and ATEX/IECEx cable variant

 Explosion protection Further information can be found in chapter **"3.4. Explosion protection"** on page 6.

**Environment and installation**
**Ambient temperature<sup>1.)</sup>**

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 C (CF C)</b><br>3/2-way solenoid valve<br>Direct-acting<br>Normally closed |
|        | <b>Circuit function D (CF D)</b><br>3/2-way solenoid valve<br>Direct-acting<br>Normally open   |

### 3. Approvals and conformities

#### 3.1. General notes

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

#### 3.2. Conformity

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

#### 3.3. Standards

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

#### 3.4. Explosion protection

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

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

| Approval                                                                            | Description                                                                                                                                                                                                                                                                    |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p><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:</p> <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

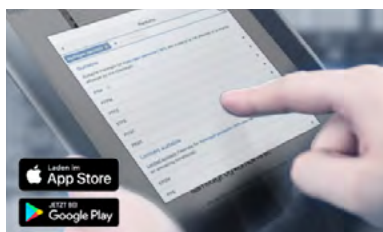
| Conformity                                                                          | Description                                                                                                                                                                                                         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

### 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.                           |

## 4. Materials

### 4.1. Bürkert resistApp



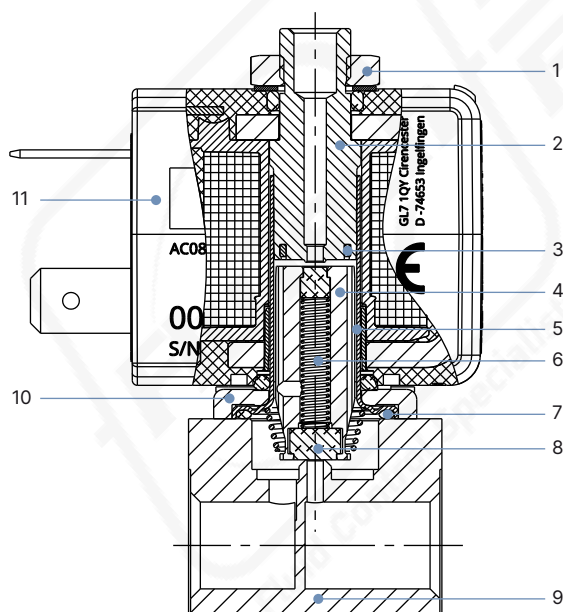
#### Bürkert resistApp – Chemical resistance chart

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](#)

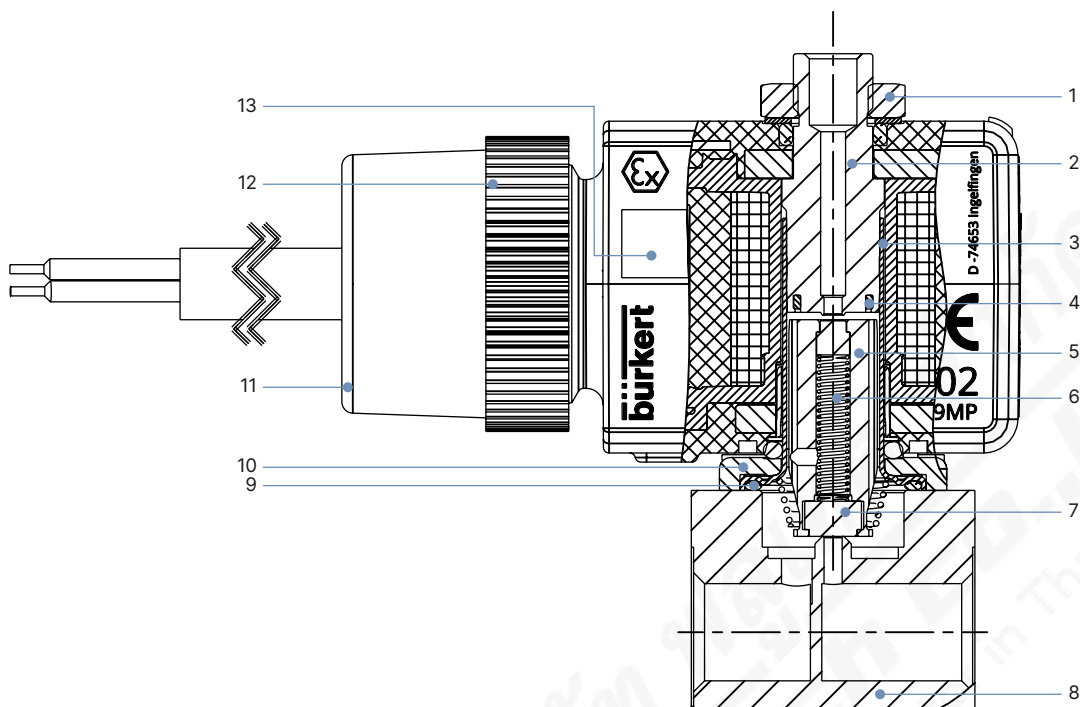
### 4.2. Material specifications

#### Standard variant



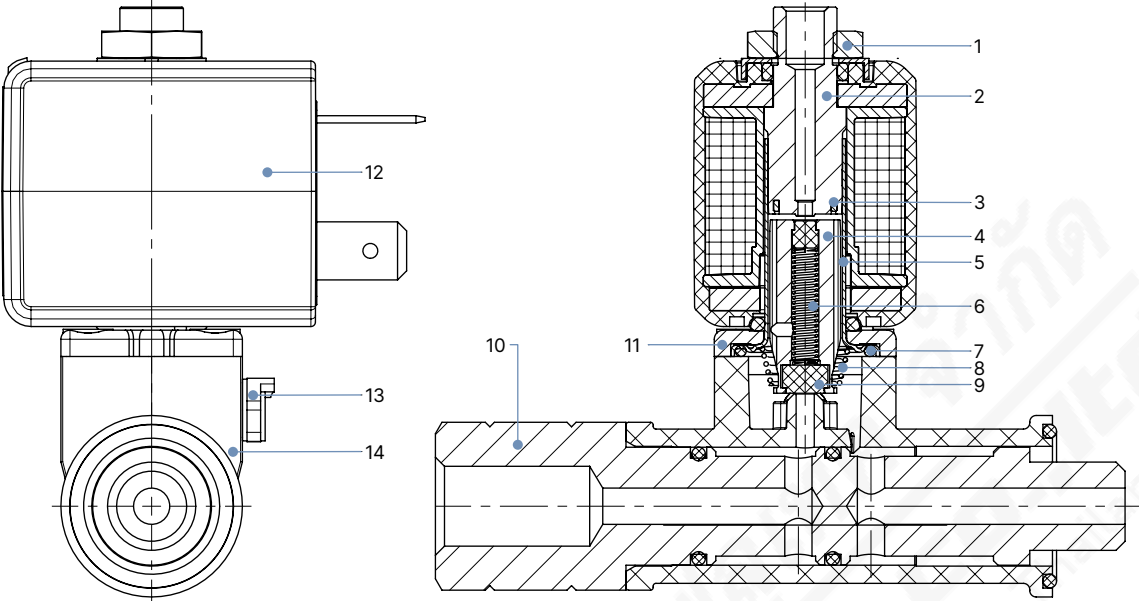
| No. | Element         | Material                                                                                                                                                                 |
|-----|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------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

## ATEX/IECEx cable variant



| No. | Element         | Material                                                                                                                                                                 |
|-----|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Locknut         | 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 KOSA0101 (brass variant)</li> <li>Nickel-plated surface (stainless steel variant)</li> </ul> |
| 11  | Sealing ring    | Silicone                                                                                                                                                                 |
| 12  | Union nut       | PA (Polyamide)                                                                                                                                                           |
| 13  | Coil            | Epoxy                                                                                                                                                                    |

Banjo variant



| No. | Element         | Material                                                                                                                                                                  |
|-----|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Locknut         | DIN 176<br>Surface finish thick film passivated KOSA0101                                                                                                                  |
| 2   | Stopper         | Stainless steel 1.4113                                                                                                                                                    |
| 3   | Shading ring    | Copper (silver optional)                                                                                                                                                  |
| 4   | Core            | Stainless steel 1.4113                                                                                                                                                    |
| 5   | Core guide tube | Stainless steel 1.4303 ST                                                                                                                                                 |
| 6   | Spring          | Stainless steel 1.4310                                                                                                                                                    |
| 7   | O-ring          | FKM                                                                                                                                                                       |
| 8   | Spring          | Stainless steel 1.4310                                                                                                                                                    |
| 9   | Seal            | FKM                                                                                                                                                                       |
| 10  | Banjo bolt      | Brass                                                                                                                                                                     |
| 11  | Flange          | <ul style="list-style-type: none"><li>• Surface finish thick film passivated KOSA0101 (brass variant)</li><li>• Nickel-plated surface (stainless steel variant)</li></ul> |
| 12  | Coil            | Epoxy                                                                                                                                                                     |
| 13  | Manual override | Durethan                                                                                                                                                                  |
| 14  | Body            | PPS (polyphenylene sulphide)                                                                                                                                              |

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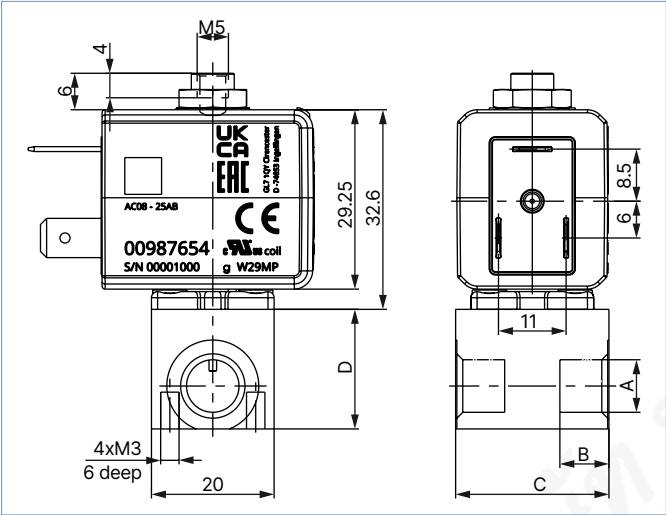
5. Dimensions

5.1. Standard variant

Threaded variant

Note:

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

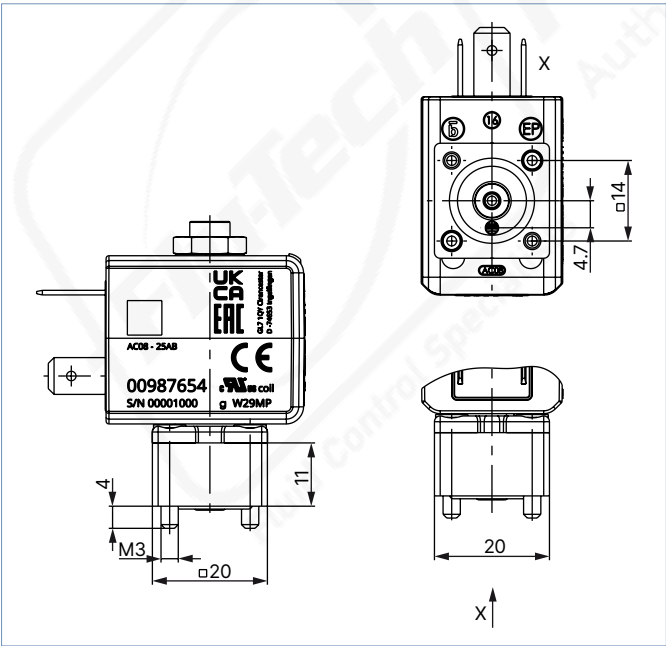


| Port connection | A       | B    | C    | D    |
|-----------------|---------|------|------|------|
|                 |         | [mm] | [mm] | [mm] |
| Thread          | M5      | 5    | 20   | 14   |
|                 | G 1/8   | 8    | 25   | 19.5 |
|                 | NPT 1/8 | 7    | 25   | 19.5 |

Flange variant

Note:

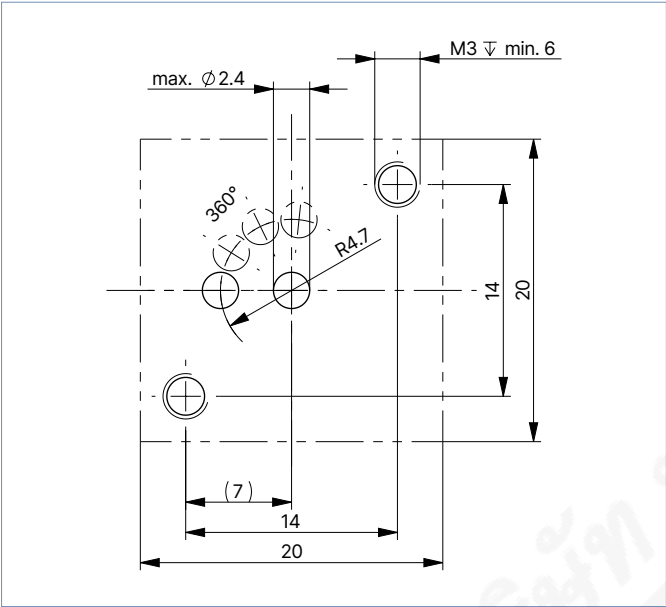
- Dimensions in mm
- Variants according to industry standard form B



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

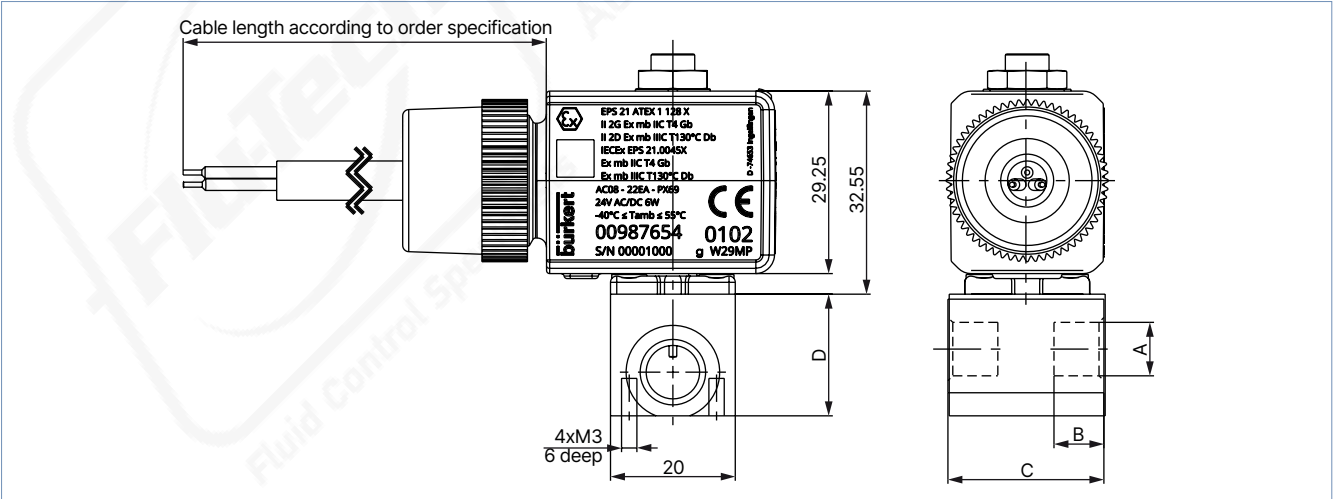


5.2. ATEX/IECEx cable variant

Threaded variant

Note:

Dimensions in mm

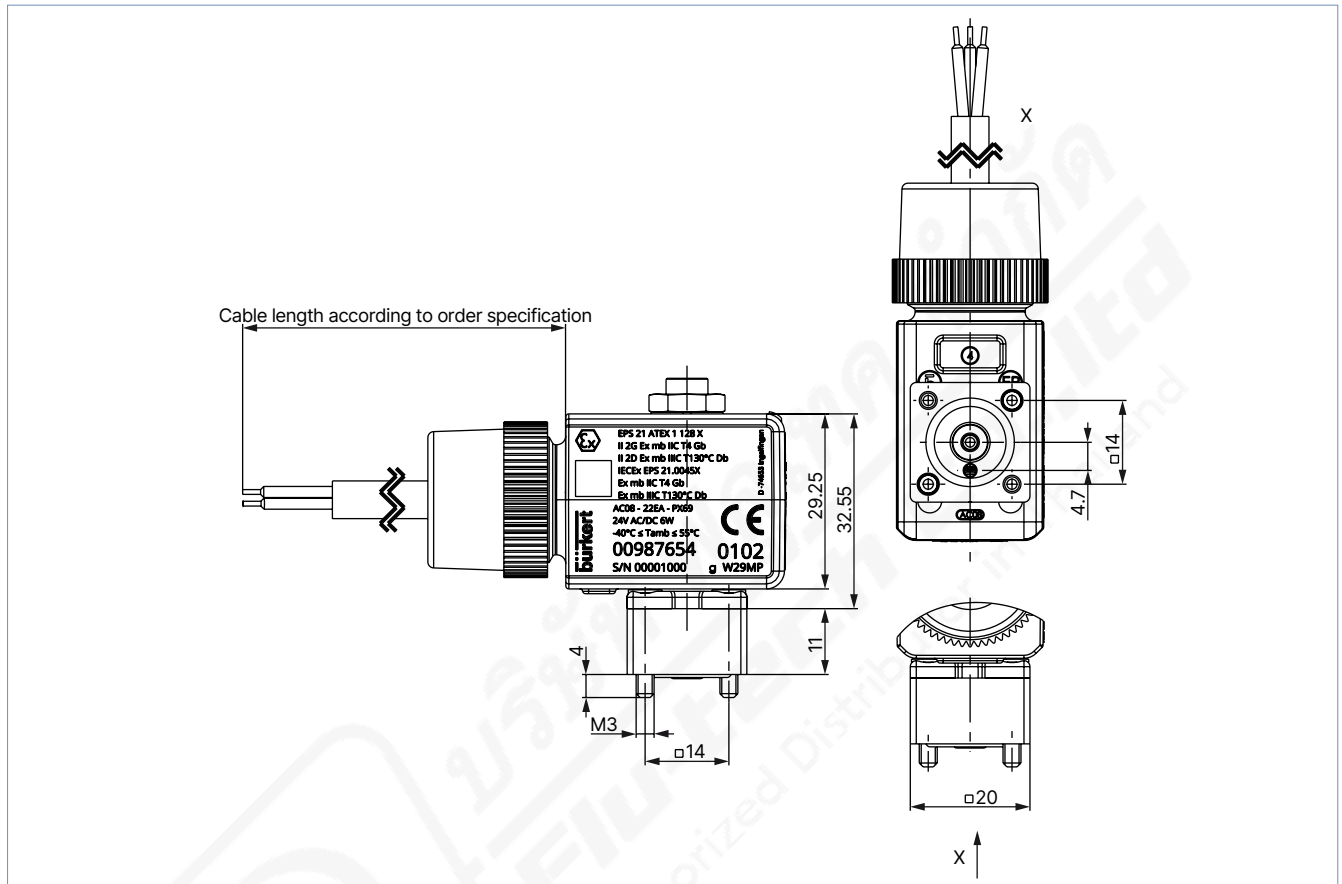


| Port connection | A     | B    | C    | D    |
|-----------------|-------|------|------|------|
|                 |       | [mm] | [mm] | [mm] |
| Thread          | M5    | 5    | 20   | 14   |
| Thread          | G 1/8 | 8    | 25   | 19.5 |

### Flange variant

#### Note:

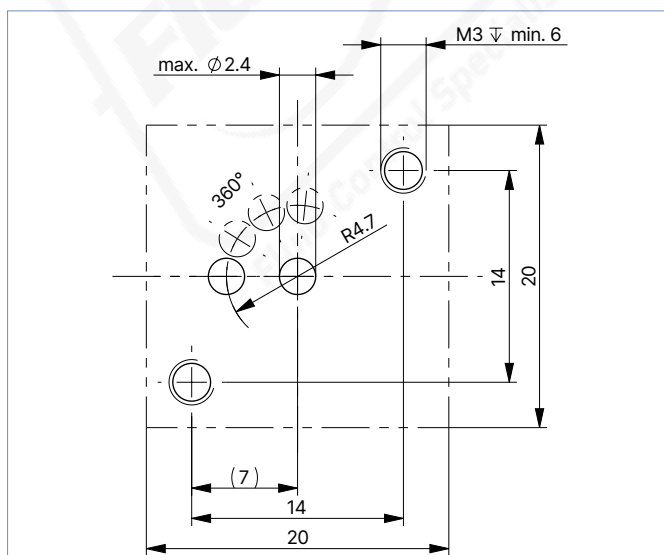
Dimensions in mm



### 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

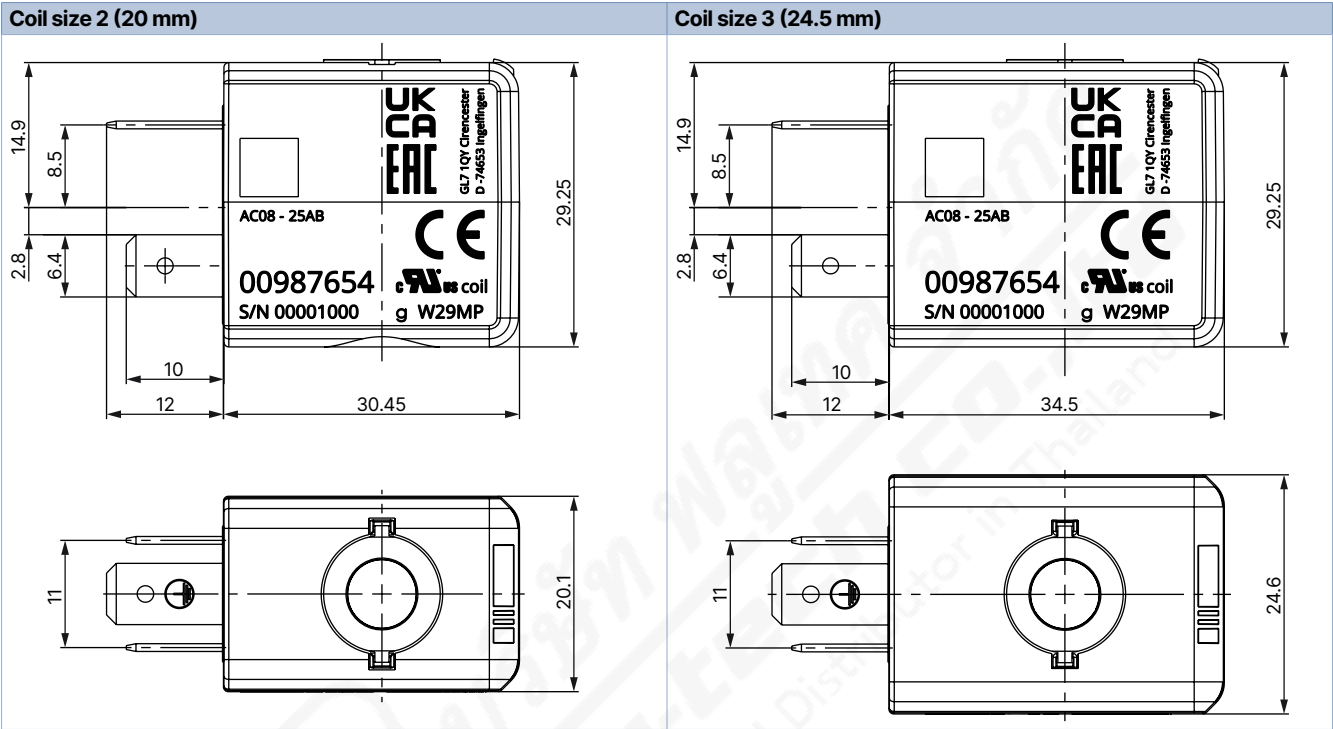


5.3. Coil variants

Variants according to industry standard form B

**Note:**

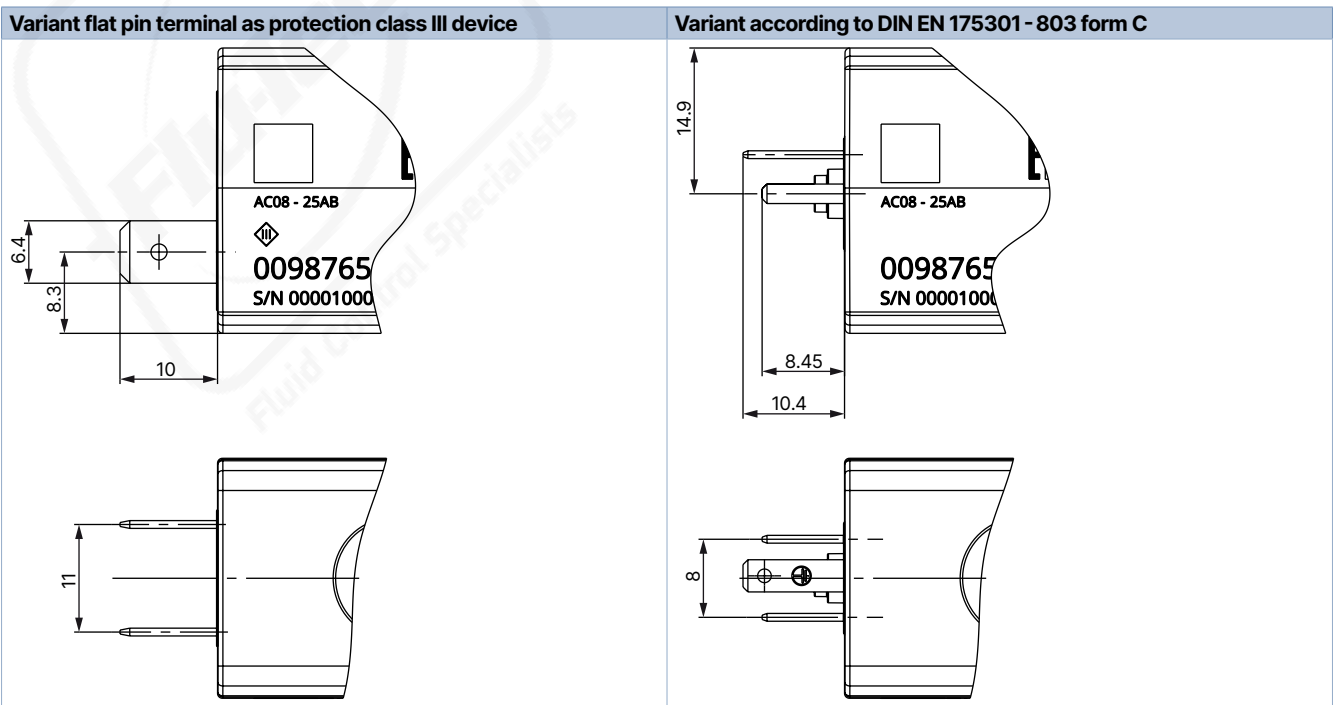
Dimensions in mm



Further electrical connections

**Note:**

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

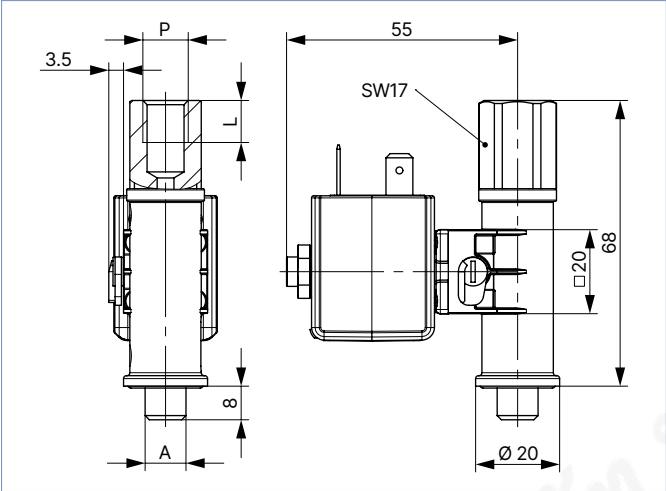


5.4. Banjo variant

With 76 mm banjo bolt

Note:

- Dimensions in mm
- Coil size 24.5 mm
- Available orifices: 1.2 mm, 1.6 mm and 2.0 mm

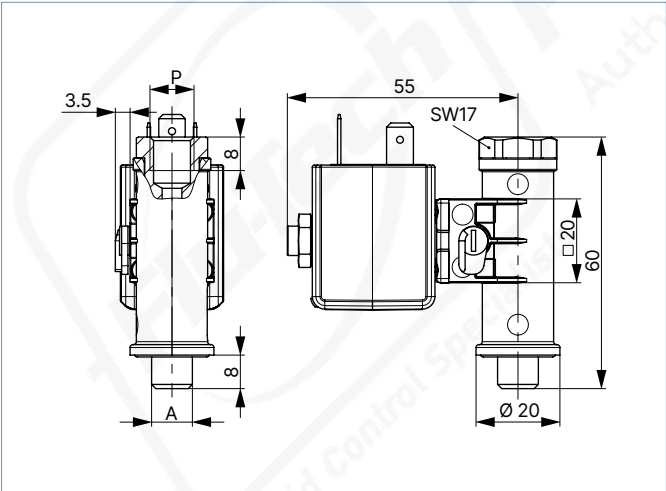


| Port connection | P      | A      | L    |
|-----------------|--------|--------|------|
|                 | [Zoll] | [Zoll] | [mm] |
| BJ02            | G ¼    | G ¼    | 12   |
| BJ03            | NPT ¼  | G ⅜    | 12.9 |
| BJ04            | NPT ¼  | G ¼    | 12.9 |
| BJ05            | G ¼    | G ⅜    | 12   |
| BJ07            | NPT ⅜  | G ⅜    | 8.9  |

With 60 mm banjo bolt

Note:

- Dimensions in mm
- Coil size 24.5 mm
- Available orifices: 1.2 mm, 1.6 mm and 2.0 mm



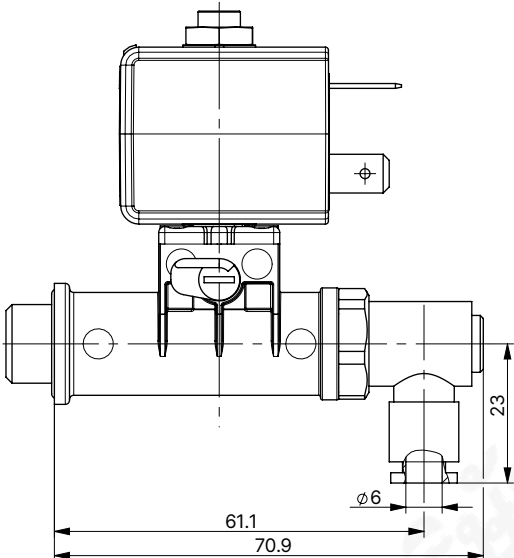
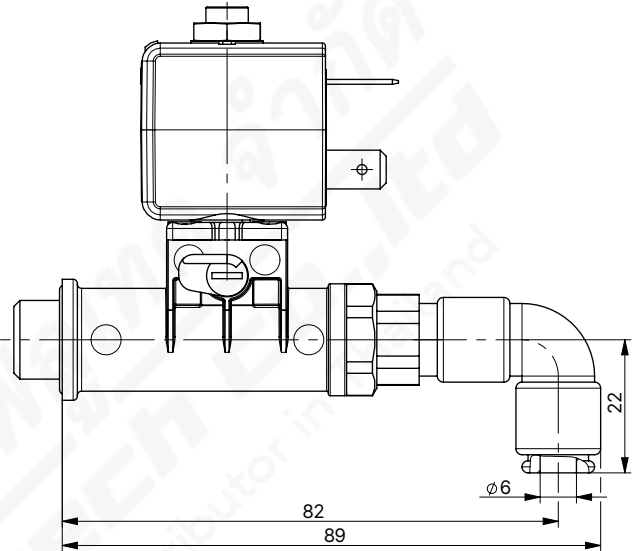
| Port connection | P      | A      | L    |
|-----------------|--------|--------|------|
|                 | [Zoll] | [Zoll] | [mm] |
| BJ01            | G ⅜    | G ⅜    | 8    |
| BJ06            | G ⅜    | G ¼    | 8    |

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With enclosed push-in hose connector, rotatable

Note:

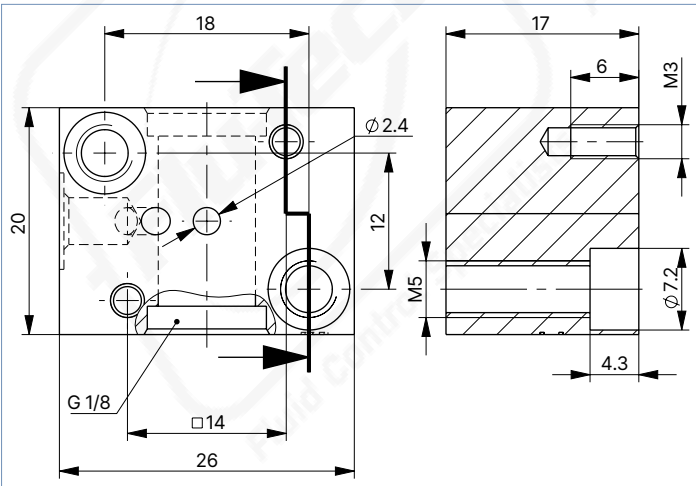
- Dimensions in mm
- Only available for banjo variants with 60 mm banjo bolt and port connection BJ01 and BJ06
- Minimum order quantity 50 pieces

| Elbow screw fitting, rotatable with O-Ring, made of nickel-plated brass, supplied loose (variable code: LB26) | Elbow screw fitting, rotatable with O-Ring, made of POM, supplied loose (variable code: LB27) |
|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|                             |            |

5.5. Single manifold

Note:

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



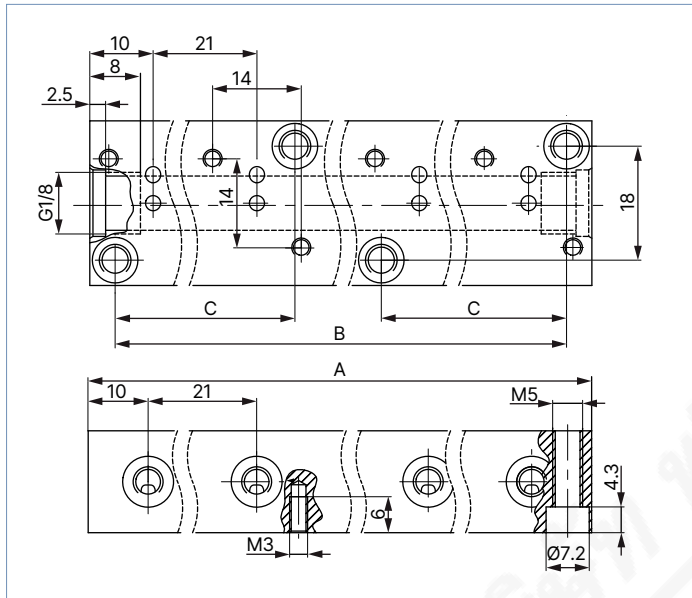
| Quantity of valve places | A [mm] | B [mm] | C [mm] | Article no. |
|--------------------------|--------|--------|--------|-------------|
| 1                        | 20     | 12     | —      | 005312      |

## 5.6. Multiple manifold

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

#### Note:

- Dimensions in mm
- Can only be combined with Type 7012 valves with coil size 20 mm

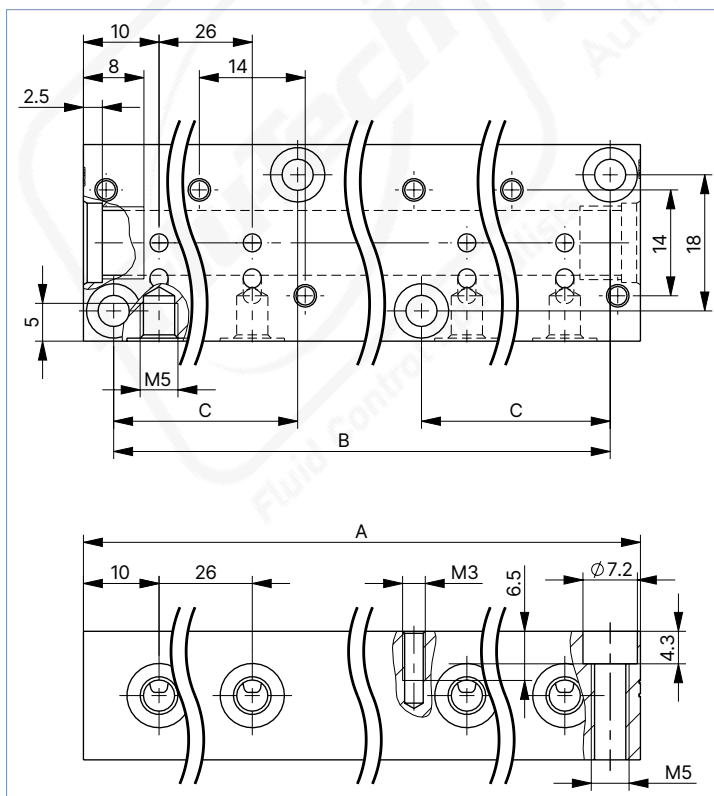


| Quantity of valve places | A [mm] | B [mm] | C [mm] | Article no. |
|--------------------------|--------|--------|--------|-------------|
| 2                        | 41     | 33     | –      | 005355      |
| 3                        | 62     | 54     | –      | 005313      |
| 4                        | 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      |

### Manifolds for valves with 24.5 mm coil (SG3)

#### Note:

- Dimensions in mm
- Can be combined with Type 7012 valves with coil size 24.5 mm or with valves with function B

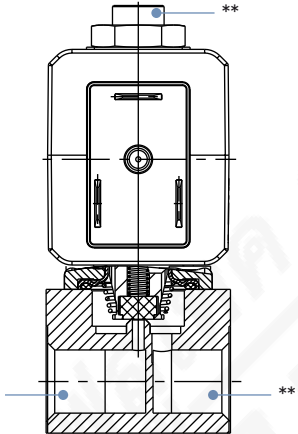
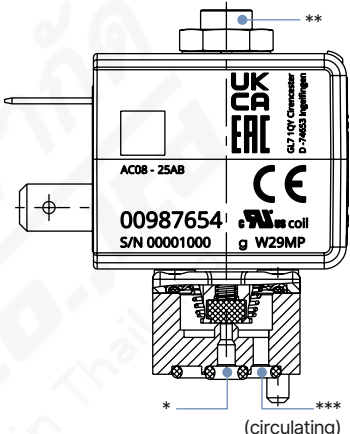


| Quantity of valve places | A [mm] | B [mm] | C [mm] | Article no. |
|--------------------------|--------|--------|--------|-------------|
| 2                        | 46     | 38     | –      | 60021427    |
| 3                        | 72     | 64     | –      | 60021342    |
| 4                        | 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. Device/Process connections

6.1. Pin assignment

For the positions marked with \*, \*\* or \*\*\* in the drawing, the connections are marked with the letters shown in the table above, depending on the circuit function. Unused connections in circuit functions A or B will be closed off with a blanking plug or cap nut.

| Circuit function | Connection Type |         |     | Threaded variant                                                                   | Flange variant                                                                      |
|------------------|-----------------|---------|-----|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                  | *               | **      | *** |                                                                                    |                                                                                     |
| A                | P               | to lock | A   |  |  |
| B                | to lock         | B       | P   |                                                                                    |                                                                                     |
| C                | P               | R       | A   |                                                                                    |                                                                                     |
| D                | R               | P       | B   |                                                                                    |                                                                                     |
| T                | P               | R       | A   |                                                                                    |                                                                                     |

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## 7. Performance specifications

### 7.1. Power consumption

Standard variant, coil size 24.5 mm

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

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] | Hot [W] | [ms]                          | [ms]    |
| 24 V / DC / 6.5 W   | 1.2     | –                | –       | –   | 6.5      | 5       | 8...12                        | 8...12  |
|                     | 1.6     |                  |         |     |          |         |                               |         |
|                     | 2.0     |                  |         |     |          |         |                               |         |
| 24 V / 50 Hz / 6 W  | 1.2     | 11               | 7       | 6   | –        | –       |                               |         |
|                     | 1.6     |                  |         |     |          |         |                               |         |
|                     | 2.0     |                  |         |     |          |         |                               |         |
| 230 V / 50 Hz / 6 W | 1.2     | 11               | 7       | 6   | –        | –       |                               |         |
|                     | 1.6     |                  |         |     |          |         |                               |         |
|                     | 2.0     |                  |         |     |          |         |                               |         |
| 24 V / DC / 5 W     | 1.2     | –                | –       | –   | 5        | 4       |                               |         |
|                     | 1.6     |                  |         |     |          |         |                               |         |
|                     | 2.0     |                  |         |     |          |         |                               |         |
| 24 V / 50 Hz / 4 W  | 1.2     | 9                | 5       | 4   | –        | –       |                               |         |
|                     | 1.6     |                  |         |     |          |         |                               |         |
|                     | 2.0     |                  |         |     |          |         |                               |         |
| 230 V / 50 Hz / 4 W | 1.2     | 9                | 5       | 4   | –        | –       |                               |         |
|                     | 1.6     |                  |         |     |          |         |                               |         |
|                     | 2.0     |                  |         |     |          |         |                               |         |

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

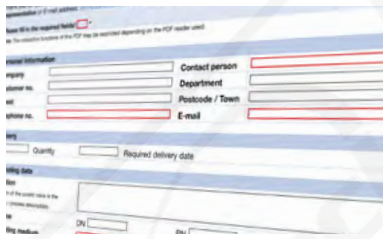


#### Bürkert product filter – Get quickly to the right product

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### 8.3. Bürkert Product Enquiry Form



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

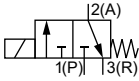
[Fill out the form now](#)

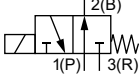
## 8.4. Ordering chart

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<br>water <sup>1)</sup> | Voltage/<br>Frequency/<br>Power | Maximum<br>duty cycle | Pressure range <sup>2)</sup> |                              | Article no. |                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------|---------------------------------------------|---------------------------------|-----------------------|------------------------------|------------------------------|-------------|-------------------------|
|                                                                                                                                                                  |                  |                   |                                             |                                 |                       | Ambient<br>temperature 75 °C | Ambient<br>temperature 55 °C | Brass body  | Stainless<br>steel body |
|                                                                                                                                                                  |                  | [mm]              | [m³/h]                                      | [V/Hz/W]                        |                       | Air + water<br>[bar]         | Air + water<br>[bar]         | FKM seal    |                         |
| <b>CFC</b><br>3/2-way solenoid<br>valve<br>Direct-acting<br>Normally closed<br> | M5               | 1.2               | 0.045                                       | 24/DC/7                         | 100 % ED              | –                            | 0...13                       | 380922 ☒    | 381000 ☒                |
|                                                                                                                                                                  |                  |                   |                                             | 24/DC/5.5                       |                       | 0...11.5                     | 0...11.5                     | 390256 ☒    | 390258 ☒                |
|                                                                                                                                                                  |                  |                   |                                             | 24/50/4                         |                       | 0...13                       | 0...13                       | 380924 ☒    | 381002 ☒                |
|                                                                                                                                                                  |                  |                   |                                             | 230/50/4                        |                       | 0...13                       | 0...13                       | 380927 ☒    | 381004 ☒                |
|                                                                                                                                                                  |                  | 1.6               | 0.060                                       | 24/DC/7                         | 100 % ED              | –                            | 0...7.5                      | 380932 ☒    | 381021 ☒                |
|                                                                                                                                                                  |                  |                   |                                             | 24/DC/5.5                       |                       | 0...6                        | 0...6                        | 390265 ☒    | 390267 ☒                |
|                                                                                                                                                                  |                  |                   |                                             | 24/50/4                         |                       | 0...7.5                      | 0...7.5                      | 380931 ☒    | 381023 ☒                |
|                                                                                                                                                                  |                  |                   |                                             | 230/50/4                        |                       | 0...7.5                      | 0...7.5                      | 380928 ☒    | 381025 ☒                |
|                                                                                                                                                                  |                  | 2.0 <sup>3)</sup> | 0.110                                       | 24/DC/7                         | 100 % ED              | –                            | 0...7                        | o. r.       | o. r.                   |
|                                                                                                                                                                  |                  |                   |                                             | 24/DC/5.5                       |                       | 0...5                        | 0...5                        | o. r.       | o. r.                   |
|                                                                                                                                                                  |                  |                   |                                             | 24/50/4                         |                       | 0...6                        | 0...6                        | o. r.       | o. r.                   |
|                                                                                                                                                                  |                  |                   |                                             | 230/50/4                        |                       | 0...6                        | 0...6                        | o. r.       | o. r.                   |
|                                                                                                                                                                  | G 1/8            | 1.2               | 0.045                                       | 24/DC/7                         | 100 % ED              | –                            | 0...13                       | 379906 ☒    | 380132 ☒                |
|                                                                                                                                                                  |                  |                   |                                             | 24/DC/5.5                       |                       | 0...11.5                     | 0...11.5                     | 390269 ☒    | 390271 ☒                |
|                                                                                                                                                                  |                  |                   |                                             | 24/50/4                         |                       | 0...13                       | 0...13                       | 379928 ☒    | 380139 ☒                |
|                                                                                                                                                                  |                  |                   |                                             | 230/50/4                        |                       | 0...13                       | 0...13                       | 380116 ☒    | 380217 ☒                |
|                                                                                                                                                                  |                  | 1.6               | 0.060                                       | 24/DC/7                         | 100 % ED              | –                            | 0...7.5                      | 379915 ☒    | 380137 ☒                |
|                                                                                                                                                                  |                  |                   |                                             | 24/DC/5.5                       |                       | 0...6                        | 0...6                        | 390275 ☒    | 390273 ☒                |
|                                                                                                                                                                  |                  |                   |                                             | 24/50/4                         |                       | 0...7.5                      | 0...7.5                      | 379930 ☒    | 380141 ☒                |
|                                                                                                                                                                  |                  |                   |                                             | 230/50/4                        |                       | 0...7.5                      | 0...7.5                      | 380118 ☒    | 380218 ☒                |
|                                                                                                                                                                  |                  | 2.0 <sup>3)</sup> | 0.110                                       | 24/DC/7                         | 100 % ED              | –                            | 0...7                        | o. r.       | o. r.                   |
|                                                                                                                                                                  |                  |                   |                                             | 24/DC/5.5                       |                       | 0...5                        | 0...5                        | o. r.       | o. r.                   |
|                                                                                                                                                                  |                  |                   |                                             | 24/50/4                         |                       | 0...6                        | 0...6                        | o. r.       | o. r.                   |
|                                                                                                                                                                  |                  |                   |                                             | 230/50/4                        |                       | 0...6                        | 0...6                        | o. r.       | o. r.                   |
|                                                                                                                                                                  | Flange<br>(FK01) | 1.2               | 0.045                                       | 24/DC/7                         | 100 % ED              | –                            | 0...13                       | 380943 ☒    | 390301 ☒                |
|                                                                                                                                                                  |                  |                   |                                             | 24/DC/5.5                       |                       | 0...11.5                     | 0...11.5                     | 390348 ☒    | 390351 ☒                |
|                                                                                                                                                                  |                  |                   |                                             | 24/50/4                         |                       | 0...13                       | 0...13                       | 380942 ☒    | 381029 ☒                |
|                                                                                                                                                                  |                  |                   |                                             | 230/50/4                        |                       | 0...13                       | 0...13                       | 380940 ☒    | 390353 ☒                |
|                                                                                                                                                                  |                  | 1.6               | 0.060                                       | 24/DC/7                         | 100 % ED              | –                            | 0...7.5                      | 380934 ☒    | 390355 ☒                |
|                                                                                                                                                                  |                  |                   |                                             | 24/DC/5.5                       |                       | 0...6                        | 0...6                        | 390358 ☒    | 390360 ☒                |
|                                                                                                                                                                  |                  |                   |                                             | 24/50/4                         |                       | 0...7.5                      | 0...7.5                      | 380936 ☒    | 390362 ☒                |
|                                                                                                                                                                  |                  |                   |                                             | 230/50/4                        |                       | 0...7.5                      | 0...7.5                      | 380938 ☒    | 389484 ☒                |
|                                                                                                                                                                  |                  | 2.0 <sup>3)</sup> | 0.110                                       | 24/DC/7                         | 100 % ED              | –                            | 0...7                        | o. r.       | o. r.                   |
|                                                                                                                                                                  |                  |                   |                                             | 24/DC/5.5                       |                       | 0...5                        | 0...5                        | o. r.       | o. r.                   |
|                                                                                                                                                                  |                  |                   |                                             | 24/50/4                         |                       | 0...6                        | 0...6                        | o. r.       | o. r.                   |
|                                                                                                                                                                  |                  |                   |                                             | 230/50/4                        |                       | 0...6                        | 0...6                        | 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<br>temperature 75 °C  | Ambient<br>temperature 55 °C | Brass body           | Stainless<br>steel body |
|                                                                                                                                                             |                  | [mm]               | [m <sup>3</sup> /h]                       |                                 |                       | Air + water<br>[bar]          | Air + water<br>[bar]         | FKM seal             |                         |
| <b>CFD</b><br>3/2-way solenoid valve<br>Direct-acting<br>Normally open<br> | M5               | 1.2                | 0.045                                     | 24 / DC / 5.5                   | 100 % ED              | 0...10                        | 0...10                       | 390363               | 390365                  |
|                                                                                                                                                             |                  |                    |                                           | 24 / 50 / 4                     |                       | 0...10                        | 0...10                       | 390367               | 390382                  |
|                                                                                                                                                             |                  |                    |                                           | 230 / 50 / 4                    |                       | 0...10                        | 0...10                       | 390385               | 390384                  |
|                                                                                                                                                             |                  | 1.6                | 0.060                                     | 24 / DC / 5.5                   | 100 % ED              | 0...6                         | 0...6                        | 390390               | 390392                  |
|                                                                                                                                                             |                  |                    |                                           | 24 / 50 / 4                     |                       | 0...6                         | 0...6                        | 390396               | 390398                  |
|                                                                                                                                                             |                  |                    |                                           | 230 / 50 / 4                    |                       | 0...6                         | 0...6                        | 390400               | 390401                  |
|                                                                                                                                                             |                  | 2.0 <sup>3.)</sup> | 0.110                                     | 24 / DC / 5.5                   | 100 % ED              | 0...8                         | 0...8                        | o. r.                | o. r.                   |
|                                                                                                                                                             |                  |                    |                                           | 24 / 50 / 4                     |                       | 0...7                         | 0...7                        | o. r. <sup>4.)</sup> | o. r. <sup>4.)</sup>    |
|                                                                                                                                                             |                  |                    |                                           | 230 / 50 / 4                    |                       | 0...7                         | 0...7                        | o. r. <sup>4.)</sup> | o. r. <sup>4.)</sup>    |
|                                                                                                                                                             | G 1/8            | 1.2                | 0.045                                     | 24 / DC / 5.5                   | 100 % ED              | 0...10                        | 0...10                       | 385475               | 390402                  |
|                                                                                                                                                             |                  |                    |                                           | 24 / 50 / 4                     |                       | 0...10                        | 0...10                       | 390406               | 390409                  |
|                                                                                                                                                             |                  |                    |                                           | 230 / 50 / 4                    |                       | 0...10                        | 0...10                       | 390438               | 390439                  |
|                                                                                                                                                             |                  | 1.6                | 0.060                                     | 24 / DC / 5.5                   | 100 % ED              | 0...6                         | 0...6                        | 390440               | 390442                  |
|                                                                                                                                                             |                  |                    |                                           | 24 / 50 / 4                     |                       | 0...6                         | 0...6                        | 390444               | 390446                  |
|                                                                                                                                                             |                  |                    |                                           | 230 / 50 / 4                    |                       | 0...6                         | 0...6                        | 390448               | 390449                  |
|                                                                                                                                                             |                  | 2.0 <sup>3.)</sup> | 0.110                                     | 24 / DC / 5.5                   | 100 % ED              | 0...8                         | 0...8                        | o. r.                | o. r.                   |
|                                                                                                                                                             |                  |                    |                                           | 24 / 50 / 4                     |                       | 0...7                         | 0...7                        | o. r. <sup>4.)</sup> | o. r. <sup>4.)</sup>    |
|                                                                                                                                                             |                  |                    |                                           | 230 / 50 / 4                    |                       | 0...7                         | 0...7                        | o. r. <sup>4.)</sup> | o. r. <sup>4.)</sup>    |
|                                                                                                                                                             | Flange<br>(FK01) | 1.2                | 0.045                                     | 24 / DC / 5.5                   | 100 % ED              | 0...10                        | 0...10                       | 390450               | 390452                  |
|                                                                                                                                                             |                  |                    |                                           | 24 / 50 / 4                     |                       | 0...10                        | 0...10                       | 390456               | 393085                  |
|                                                                                                                                                             |                  |                    |                                           | 230 / 50 / 4                    |                       | 0...10                        | 0...10                       | 390459               | 390460                  |
|                                                                                                                                                             |                  | 1.6                | 0.060                                     | 24 / DC / 5.5                   | 100 % ED              | 0...6                         | 0...6                        | 390462               | 390464                  |
|                                                                                                                                                             |                  |                    |                                           | 24 / 50 / 4                     |                       | 0...6                         | 0...6                        | 390468               | 390466                  |
|                                                                                                                                                             |                  |                    |                                           | 230 / 50 / 4                    |                       | 0...6                         | 0...6                        | 390470               | 390471                  |
|                                                                                                                                                             |                  | 2.0 <sup>3.)</sup> | 0.110                                     | 24 / DC / 5.5                   | 100 % ED              | 0...8                         | 0...8                        | o. r.                | o. r.                   |
|                                                                                                                                                             |                  |                    |                                           | 24 / 50 / 4                     |                       | 0...7                         | 0...7                        | o. r. <sup>4.)</sup> | o. r. <sup>4.)</sup>    |
|                                                                                                                                                             |                  |                    |                                           | 230 / 50 / 4                    |                       | 0...7                         | 0...7                        | o. r. <sup>4.)</sup> | o. r. <sup>4.)</sup>    |

o. r. = on request

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

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

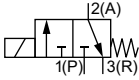
3.) Limited swelling compensation

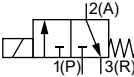
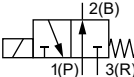
4.) Can also be feasible with coil size 2

## 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/<br>Frequency/<br>Power | Maximum<br>duty cycle | Pressure range <sup>2)</sup> |                              | Article no. |                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------|------------------------------------------|---------------------------------|-----------------------|------------------------------|------------------------------|-------------|-------------------------|
|                                                                                                                                                                   |                  |                   |                                          |                                 |                       | Ambient<br>temperature 75 °C | Ambient<br>temperature 55 °C | Brass body  | Stainless<br>steel body |
|                                                                                                                                                                   |                  | [mm]              | [m³/h]                                   |                                 |                       | Air + water<br>[bar]         | Air + water<br>[bar]         | FKM seal    |                         |
| <b>CF C</b><br>3/2-way solenoid<br>valve<br>Direct-acting<br>Normally closed<br> | M5               | 1.2               | 0.045                                    | 24/DC/6.5                       | 100 % ED              | –                            | 0...11                       | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  |                   |                                          | 24/50/6                         |                       | –                            | 0...13                       | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  |                   |                                          | 230/50/6                        |                       | –                            | 0...13                       | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  |                   |                                          | 24/DC/5                         |                       | 0...10                       | 0...10                       | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  |                   |                                          | 24/50/4                         |                       | 0...11                       | 0...11                       | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  |                   |                                          | 230/50/4                        |                       | 0...11                       | 0...11                       | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  | 1.6               | 0.060                                    | 24/DC/6.5                       | 100 % ED              | –                            | 0...6                        | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  |                   |                                          | 24/50/6                         |                       | –                            | 0...7.5                      | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  |                   |                                          | 230/50/6                        |                       | –                            | 0...7.5                      | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  |                   |                                          | 24/DC/5                         |                       | 0...5.5                      | 0...5.5                      | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  |                   |                                          | 24/50/4                         |                       | 0...6                        | 0...6                        | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  |                   |                                          | 230/50/4                        |                       | 0...6                        | 0...6                        | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  | 2.0 <sup>3)</sup> | 0.110                                    | 24/DC/6.5                       | 100 % ED              | –                            | 0...5                        | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  |                   |                                          | 24/50/6                         |                       | –                            | 0...6                        | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  |                   |                                          | 230/50/6                        |                       | –                            | 0...6                        | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  |                   |                                          | 24/DC/5                         |                       | 0...4                        | 0...4                        | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  |                   |                                          | 24/50/4                         |                       | 0...5.5                      | 0...5.5                      | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  |                   |                                          | 230/50/4                        |                       | 0...5.5                      | 0...5.5                      | o. r.       | o. r.                   |
|                                                                                                                                                                   | G 1/8            | 1.2               | 0.045                                    | 24/DC/6.5                       | 100 % ED              | –                            | 0...11                       | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  |                   |                                          | 24/50/6                         |                       | –                            | 0...13                       | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  |                   |                                          | 230/50/6                        |                       | –                            | 0...13                       | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  |                   |                                          | 24/DC/5                         |                       | 0...10                       | 0...10                       | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  |                   |                                          | 24/50/4                         |                       | 0...11                       | 0...11                       | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  |                   |                                          | 230/50/4                        |                       | 0...11                       | 0...11                       | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  | 1.6               | 0.060                                    | 24/DC/6.5                       | 100 % ED              | –                            | 0...6                        | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  |                   |                                          | 24/50/6                         |                       | –                            | 0...7.5                      | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  |                   |                                          | 230/50/6                        |                       | –                            | 0...7.5                      | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  |                   |                                          | 24/DC/5                         |                       | 0...5.5                      | 0...5.5                      | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  |                   |                                          | 24/50/4                         |                       | 0...6                        | 0...6                        | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  |                   |                                          | 230/50/4                        |                       | 0...6                        | 0...6                        | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  | 2.0 <sup>3)</sup> | 0.110                                    | 24/DC/6.5                       | 100 % ED              | –                            | 0...5                        | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  |                   |                                          | 24/50/6                         |                       | –                            | 0...6                        | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  |                   |                                          | 230/50/6                        |                       | –                            | 0...6                        | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  |                   |                                          | 24/DC/5                         |                       | 0...4                        | 0...4                        | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  |                   |                                          | 24/50/4                         |                       | 0...5.5                      | 0...5.5                      | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  |                   |                                          | 230/50/4                        |                       | 0...5.5                      | 0...5.5                      | o. r.       | o. r.                   |
|                                                                                                                                                                   | Flange<br>(FK01) | 1.2               | 0.045                                    | 24/DC/6.5                       | 100 % ED              | –                            | 0...11                       | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  |                   |                                          | 24/50/6                         |                       | –                            | 0...13                       | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  |                   |                                          | 230/50/6                        |                       | –                            | 0...13                       | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  |                   |                                          | 24/DC/5                         |                       | 0...10                       | 0...10                       | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  |                   |                                          | 24/50/4                         |                       | 0...11                       | 0...11                       | o. r.       | o. r.                   |
|                                                                                                                                                                   |                  |                   |                                          | 230/50/4                        |                       | 0...11                       | 0...11                       | o. r.       | o. r.                   |

| Circuit function                                                                                                                                                  | Port connection   | Orifice           | K <sub>v</sub> value<br>water <sup>1)</sup> | Voltage/<br>Frequency/<br>Power | Maximum<br>duty cycle | Pressure range <sup>2)</sup> |                              | Article no. |                         |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|---------------------------------------------|---------------------------------|-----------------------|------------------------------|------------------------------|-------------|-------------------------|-------|
|                                                                                                                                                                   |                   |                   |                                             |                                 |                       | Ambient<br>temperature 75 °C | Ambient<br>temperature 55 °C | Brass body  | Stainless<br>steel body |       |
|                                                                                                                                                                   |                   | Air + water       | Air + water                                 | FKM seal                        |                       |                              |                              |             |                         |       |
|                                                                                                                                                                   |                   | [mm]              | [m³/h]                                      | [V/Hz/W]                        |                       | [bar]                        | [bar]                        |             |                         |       |
| <b>CF C</b><br>3/2-way solenoid<br>valve<br>Direct-acting<br>Normally closed<br> | Flange<br>(FK01)  | 1.6               | 0.060                                       | 24/DC/6.5                       | 100 % ED              | –                            | 0...6                        | o. r.       | o. r.                   |       |
|                                                                                                                                                                   |                   |                   |                                             | 24/50/6                         |                       | –                            | 0...7.5                      | o. r.       | o. r.                   |       |
|                                                                                                                                                                   |                   |                   |                                             | 230/50/6                        |                       | –                            | 0...7.5                      | o. r.       | o. r.                   |       |
|                                                                                                                                                                   |                   |                   |                                             | 24/DC/5                         |                       | 0...5.5                      | 0...5.5                      | o. r.       | o. r.                   |       |
|                                                                                                                                                                   |                   |                   |                                             | 24/50/4                         |                       | 0...6                        | 0...6                        | o. r.       | o. r.                   |       |
|                                                                                                                                                                   |                   |                   |                                             | 230/50/4                        |                       | 0...6                        | 0...6                        | o. r.       | o. r.                   |       |
|                                                                                                                                                                   |                   | 2.0 <sup>3)</sup> | 0.110                                       | 24/DC/6.5                       | 100 % ED              | –                            | 0...5                        | o. r.       | o. r.                   |       |
|                                                                                                                                                                   |                   |                   |                                             | 24/50/6                         |                       | –                            | 0...6                        | o. r.       | o. r.                   |       |
|                                                                                                                                                                   |                   |                   |                                             | 230/50/6                        |                       | –                            | 0...6                        | o. r.       | o. r.                   |       |
|                                                                                                                                                                   |                   |                   |                                             | 24/DC/5                         |                       | 0...4                        | 0...4                        | o. r.       | o. r.                   |       |
|                                                                                                                                                                   |                   |                   |                                             | 24/50/4                         |                       | 0...5.5                      | 0...5.5                      | o. r.       | o. r.                   |       |
|                                                                                                                                                                   |                   |                   |                                             | 230/50/4                        |                       | 0...5.5                      | 0...5.5                      | o. r.       | o. r.                   |       |
| <b>CF D</b><br>3/2-way solenoid<br>valve<br>Direct-acting<br>Normally open<br>   | M5                | 1.2               | 0.045                                       | 24/DC/5                         | 100 % ED              | 0...10                       | 0...10                       | 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.                   |       |
|                                                                                                                                                                   |                   | 1.6               | 0.060                                       | 24/DC/5                         | 100 % ED              | 0...6                        | 0...6                        | o. r.       | o. r.                   |       |
|                                                                                                                                                                   |                   |                   |                                             | 24/50/4                         |                       | 0...6                        | 0...6                        | o. r.       | o. r.                   |       |
|                                                                                                                                                                   |                   |                   |                                             | 230/50/4                        |                       | 0...6                        | 0...6                        | o. r.       | o. r.                   |       |
|                                                                                                                                                                   |                   | 2.0 <sup>3)</sup> | 0.110                                       | 24/DC/6.5                       | 100 % ED              | –                            | 0...8                        | o. r.       | o. r.                   |       |
|                                                                                                                                                                   |                   |                   |                                             | 24/DC/5                         |                       | 0...6                        | 0...6                        | o. r.       | o. r.                   |       |
|                                                                                                                                                                   |                   |                   |                                             | 24/50/4                         |                       | 0...7                        | 0...7                        | o. r.       | o. r.                   |       |
|                                                                                                                                                                   |                   |                   |                                             | 230/50/4                        |                       | 0...7                        | 0...7                        | o. r.       | o. r.                   |       |
|                                                                                                                                                                   |                   | G ⅛               | 1.2                                         | 0.045                           | 24/DC/5               | 100 % ED                     | 0...10                       | 0...10      | 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. |
|                                                                                                                                                                   |                   |                   | 1.6                                         | 0.060                           | 24/DC/5               | 100 % ED                     | 0...6                        | 0...6       | o. r.                   | o. r. |
|                                                                                                                                                                   |                   |                   |                                             |                                 | 24/50/4               |                              | 0...6                        | 0...6       | o. r.                   | o. r. |
|                                                                                                                                                                   |                   |                   |                                             |                                 | 230/50/4              |                              | 0...6                        | 0...6       | o. r.                   | o. r. |
|                                                                                                                                                                   |                   |                   | 2.0 <sup>3)</sup>                           | 0.110                           | 24/DC/6.5             | 100 % ED                     | –                            | 0...8       | o. r.                   | o. r. |
|                                                                                                                                                                   |                   |                   |                                             |                                 | 24/DC/5               |                              | 0...6                        | 0...6       | o. r.                   | o. r. |
|                                                                                                                                                                   |                   |                   |                                             |                                 | 24/50/4               |                              | 0...7                        | 0...7       | o. r.                   | o. r. |
|                                                                                                                                                                   |                   | Flange<br>(FK01)  | 1.2                                         | 0.045                           | 24/DC/5               | 100 % ED                     | 0...10                       | 0...10      | o. r.                   | o. r. |
|                                                                                                                                                                   |                   |                   |                                             |                                 | 24/DC/5.5             |                              | 0...6                        | 0...6       | 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. |
|                                                                                                                                                                   |                   |                   | 1.6                                         | 0.060                           | 24/DC/5               | 100 % ED                     | 0...6                        | 0...6       | o. r.                   | o. r. |
|                                                                                                                                                                   | 24/50/4           |                   |                                             |                                 | 0...6                 |                              | 0...6                        | o. r.       | o. r.                   |       |
|                                                                                                                                                                   | 230/50/4          |                   |                                             |                                 | 0...6                 |                              | 0...6                        | o. r.       | o. r.                   |       |
|                                                                                                                                                                   | 2.0 <sup>3)</sup> |                   | 0.110                                       | 24/DC/6.5                       | 100 % ED              | –                            | 0...8                        | o. r.       | o. r.                   |       |
|                                                                                                                                                                   |                   |                   |                                             | 24/DC/5                         |                       | 0...6                        | 0...6                        | o. r.       | o. r.                   |       |
|                                                                                                                                                                   |                   | 24/50/4           |                                             | 0...7                           |                       | 0...7                        | o. r.                        | o. r.       |                         |       |
|                                                                                                                                                                   | 230/50/4          | 0...7             | 0...7                                       | o. r.                           | o. r.                 |                              |                              |             |                         |       |

o. r. = on request

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

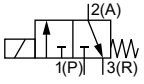
2.) Pressure data: overpressure to atmospheric pressure and air as a medium

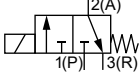
3.) Limited swelling compensation

## Banjo variant

## Note:

- All valves are delivered without a cable plug.
- Coil size 24.5 mm
- Orifices 1.6 mm and 2.0 mm on request.

| Circuit function                                                                                                                                                  | Port connection                    | Orifice | Q <sub>in</sub><br>value air <sup>1)</sup> | Voltage/Frequency/<br>Power | Maximum<br>duty cycle | Medium pressure <sup>2)</sup><br>Ambient temperature<br>max. + 55 °C resp.<br>+ 75 °C <sup>3)</sup> | Article no.                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|---------|--------------------------------------------|-----------------------------|-----------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
|                                                                                                                                                                   |                                    | [mm]    | [l/min]                                    |                             |                       | Air<br>[bar]                                                                                        | FKM seal                                                                                       |
| <b>CF C</b><br>3/2-way solenoid<br>valve<br>Direct-acting<br>Normally closed<br> | BJ01<br><br>P: G 1/8<br>A: G 1/8   | 1.2     | 35                                         | 24/DC/7                     | 100 % ED              | 0...13                                                                                              | 20077509    |
|                                                                                                                                                                   |                                    |         |                                            | 24/DC/5.5                   |                       | 0...11.5                                                                                            | 20087634    |
|                                                                                                                                                                   |                                    |         |                                            | 24/50/4                     |                       | 0...13                                                                                              | 20077511    |
|                                                                                                                                                                   |                                    |         |                                            | 230/50/4                    |                       | 0...13                                                                                              | 20070709    |
|                                                                                                                                                                   |                                    | 1.6     | 48                                         | 24/DC/7                     | 100 % ED              | 0...7.5                                                                                             | o. r.                                                                                          |
|                                                                                                                                                                   |                                    |         |                                            | 24/DC/5.5                   |                       | 0...6                                                                                               | o. r.                                                                                          |
|                                                                                                                                                                   |                                    |         |                                            | 24/50/4                     |                       | 0...7.5                                                                                             | o. r.                                                                                          |
|                                                                                                                                                                   |                                    |         |                                            | 230/50/4                    |                       | 0...7.5                                                                                             | o. r.                                                                                          |
|                                                                                                                                                                   |                                    | 2.0     | 75                                         | 24/DC/7                     | 100 % ED              | 0...7                                                                                               | o. r.                                                                                          |
|                                                                                                                                                                   |                                    |         |                                            | 24/DC/5.5                   |                       | 0...5.5                                                                                             | o. r.                                                                                          |
|                                                                                                                                                                   |                                    |         |                                            | 24/50/4                     |                       | 0...6                                                                                               | o. r.                                                                                          |
|                                                                                                                                                                   |                                    |         |                                            | 230/50/4                    |                       | 0...6                                                                                               | o. r.                                                                                          |
|                                                                                                                                                                   | BJ02<br><br>P: G 1/4<br>A: G 1/4   | 1.2     | 35                                         | 24/DC/7                     | 100 % ED              | 0...13                                                                                              | 20077512   |
|                                                                                                                                                                   |                                    |         |                                            | 24/DC/5.5                   |                       | 0...11.5                                                                                            | 20077514  |
|                                                                                                                                                                   |                                    |         |                                            | 24/50/4                     |                       | 0...13                                                                                              | 20077516  |
|                                                                                                                                                                   |                                    |         |                                            | 230/50/4                    |                       | 0...13                                                                                              | 20077519  |
|                                                                                                                                                                   |                                    | 1.6     | 48                                         | 24/DC/7                     | 100 % ED              | 0...7.5                                                                                             | o. r.                                                                                          |
|                                                                                                                                                                   |                                    |         |                                            | 24/DC/5.5                   |                       | 0...6                                                                                               | o. r.                                                                                          |
|                                                                                                                                                                   |                                    |         |                                            | 24/50/4                     |                       | 0...7.5                                                                                             | o. r.                                                                                          |
|                                                                                                                                                                   |                                    |         |                                            | 230/50/4                    |                       | 0...7.5                                                                                             | o. r.                                                                                          |
|                                                                                                                                                                   |                                    | 2.0     | 75                                         | 24/DC/7                     | 100 % ED              | 0...7                                                                                               | o. r.                                                                                          |
|                                                                                                                                                                   |                                    |         |                                            | 24/DC/5.5                   |                       | 0...5.5                                                                                             | o. r.                                                                                          |
|                                                                                                                                                                   |                                    |         |                                            | 24/50/4                     |                       | 0...6                                                                                               | o. r.                                                                                          |
|                                                                                                                                                                   |                                    |         |                                            | 230/50/4                    |                       | 0...6                                                                                               | o. r.                                                                                          |
|                                                                                                                                                                   | BJ03<br><br>P: NPT 1/4<br>A: G 1/8 | 1.2     | 35                                         | 24/DC/7                     | 100 % ED              | 0...13                                                                                              | 20077523  |
|                                                                                                                                                                   |                                    |         |                                            | 24/DC/5.5                   |                       | 0...11.5                                                                                            | 20077564  |
|                                                                                                                                                                   |                                    |         |                                            | 24/50/4                     |                       | 0...13                                                                                              | 20077570  |
|                                                                                                                                                                   |                                    |         |                                            | 230/50/4                    |                       | 0...13                                                                                              | 20077574  |
|                                                                                                                                                                   |                                    | 1.6     | 48                                         | 24/DC/7                     | 100 % ED              | 0...7.5                                                                                             | o. r.                                                                                          |
|                                                                                                                                                                   |                                    |         |                                            | 24/DC/5.5                   |                       | 0...6                                                                                               | o. r.                                                                                          |
|                                                                                                                                                                   |                                    |         |                                            | 24/50/4                     |                       | 0...7.5                                                                                             | o. r.                                                                                          |
|                                                                                                                                                                   |                                    |         |                                            | 230/50/4                    |                       | 0...7.5                                                                                             | o. r.                                                                                          |
|                                                                                                                                                                   |                                    | 2.0     | 75                                         | 24/DC/7                     | 100 % ED              | 0...7                                                                                               | o. r.                                                                                          |
|                                                                                                                                                                   |                                    |         |                                            | 24/DC/5.5                   |                       | 0...5.5                                                                                             | o. r.                                                                                          |
|                                                                                                                                                                   |                                    |         |                                            | 24/50/4                     |                       | 0...6                                                                                               | o. r.                                                                                          |
|                                                                                                                                                                   |                                    |         |                                            | 230/50/4                    |                       | 0...6                                                                                               | o. r.                                                                                          |

| Circuit function                                                                                                                                                  | Port connection                    | Orifice | Q <sub>in</sub><br>value air <sup>1.)</sup> | Voltage/Frequency/<br>Power | Maximum<br>duty cycle | Medium pressure <sup>2.)</sup><br>Ambient temperature<br>max. + 55 °C resp.<br>+ 75 °C <sup>3.)</sup> | Article no.                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|---------|---------------------------------------------|-----------------------------|-----------------------|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
|                                                                                                                                                                   |                                    | [mm]    |                                             |                             |                       | Air<br>[bar]                                                                                          |                                                                                                |
| <b>CF C</b><br>3/2-way solenoid<br>valve<br>Direct-acting<br>Normally closed<br> | BJ05<br><br>P: G 1/4<br>A: G 1/8   | 1.2     | 35                                          | 24/DC/7                     | 100 % ED              | 0...13                                                                                                | 20077596    |
|                                                                                                                                                                   |                                    |         |                                             | 24/DC/5.5                   |                       | 0...11.5                                                                                              | 20077598    |
|                                                                                                                                                                   |                                    |         |                                             | 24/50/4                     |                       | 0...13                                                                                                | 20077604    |
|                                                                                                                                                                   |                                    |         |                                             | 230/50/4                    |                       | 0...13                                                                                                | 20077609    |
|                                                                                                                                                                   |                                    | 1.6     | 48                                          | 24/DC/7                     | 100 % ED              | 0...7.5                                                                                               | o. r.                                                                                          |
|                                                                                                                                                                   |                                    |         |                                             | 24/DC/5.5                   |                       | 0...6                                                                                                 | o. r.                                                                                          |
|                                                                                                                                                                   |                                    |         |                                             | 24/50/4                     |                       | 0...7.5                                                                                               | o. r.                                                                                          |
|                                                                                                                                                                   |                                    |         |                                             | 230/50/4                    |                       | 0...7.5                                                                                               | o. r.                                                                                          |
|                                                                                                                                                                   |                                    | 2.0     | 75                                          | 24/DC/7                     | 100 % ED              | 0...7                                                                                                 | o. r.                                                                                          |
|                                                                                                                                                                   |                                    |         |                                             | 24/DC/5.5                   |                       | 0...5.5                                                                                               | o. r.                                                                                          |
|                                                                                                                                                                   |                                    |         |                                             | 24/50/4                     |                       | 0...6                                                                                                 | o. r.                                                                                          |
|                                                                                                                                                                   |                                    |         |                                             | 230/50/4                    |                       | 0...6                                                                                                 | o. r.                                                                                          |
|                                                                                                                                                                   | BJ06<br><br>P: G 1/4<br>A: G 1/8   | 1.2     | 35                                          | 24/DC/7                     | 100 % ED              | 0...13                                                                                                | 20098864    |
|                                                                                                                                                                   |                                    |         |                                             | 24/DC/5.5                   |                       | 0...11.5                                                                                              | 20087550    |
|                                                                                                                                                                   |                                    |         |                                             | 24/50/4                     |                       | 0...13                                                                                                | 20098869    |
|                                                                                                                                                                   |                                    |         |                                             | 230/50/4                    |                       | 0...13                                                                                                | 20098870    |
|                                                                                                                                                                   |                                    | 1.6     | 48                                          | 24/DC/7                     | 100 % ED              | 0...7.5                                                                                               | o. r.                                                                                          |
|                                                                                                                                                                   |                                    |         |                                             | 24/DC/5.5                   |                       | 0...6                                                                                                 | o. r.                                                                                          |
|                                                                                                                                                                   |                                    |         |                                             | 24/50/4                     |                       | 0...7.5                                                                                               | o. r.                                                                                          |
|                                                                                                                                                                   |                                    |         |                                             | 230/50/4                    |                       | 0...7.5                                                                                               | o. r.                                                                                          |
|                                                                                                                                                                   |                                    | 2.0     | 75                                          | 24/DC/7                     | 100 % ED              | 0...7                                                                                                 | o. r.                                                                                          |
|                                                                                                                                                                   |                                    |         |                                             | 24/DC/5.5                   |                       | 0...5.5                                                                                               | o. r.                                                                                          |
|                                                                                                                                                                   |                                    |         |                                             | 24/50/4                     |                       | 0...6                                                                                                 | o. r.                                                                                          |
|                                                                                                                                                                   |                                    |         |                                             | 230/50/4                    |                       | 0...6                                                                                                 | o. r.                                                                                          |
|                                                                                                                                                                   | BJ07<br><br>P: NPT 1/8<br>A: G 1/8 | 1.2     | 35                                          | 24/DC/7                     | 100 % ED              | 0...13                                                                                                | 20077610  |
|                                                                                                                                                                   |                                    |         |                                             | 24/DC/5.5                   |                       | 0...11.5                                                                                              | 20077615  |
|                                                                                                                                                                   |                                    |         |                                             | 24/50/4                     |                       | 0...13                                                                                                | 20077618  |
|                                                                                                                                                                   |                                    |         |                                             | 230/50/4                    |                       | 0...13                                                                                                | 20077626  |
|                                                                                                                                                                   |                                    | 1.6     | 48                                          | 24/DC/7                     | 100 % ED              | 0...7.5                                                                                               | o. r.                                                                                          |
|                                                                                                                                                                   |                                    |         |                                             | 24/DC/5.5                   |                       | 0...6                                                                                                 | o. r.                                                                                          |
|                                                                                                                                                                   |                                    |         |                                             | 24/50/4                     |                       | 0...7.5                                                                                               | o. r.                                                                                          |
|                                                                                                                                                                   |                                    |         |                                             | 230/50/4                    |                       | 0...7.5                                                                                               | o. r.                                                                                          |
|                                                                                                                                                                   |                                    | 2.0     | 75                                          | 24/DC/7                     | 100 % ED              | 0...7                                                                                                 | o. r.                                                                                          |
|                                                                                                                                                                   |                                    |         |                                             | 24/DC/5.5                   |                       | 0...5.5                                                                                               | o. r.                                                                                          |
|                                                                                                                                                                   |                                    |         |                                             | 24/50/4                     |                       | 0...6                                                                                                 | o. r.                                                                                          |
|                                                                                                                                                                   |                                    |         |                                             | 230/50/4                    |                       | 0...6                                                                                                 | o. r.                                                                                          |

o. r. = on request

1.) For P1: 6 bar absolute and P2: 5 bar absolute

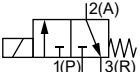
2.) Pressure data: overpressure to atmospheric pressure and air as a medium

3.) Depending on the performance level

## ATEX/IECEx cable variant

## Note:

- The maximum medium temperature may never exceed the permissible temperature class (T4 135 °C) minus 5K.
- Only single mounting permissible
- With 3 m cable as standard. Other lengths on request.

| Circuit function                                                                                                                                                     | Port connection | Orifice | K <sub>v</sub> value<br>water <sup>1.)</sup> | Voltage/Frequency/<br>Power | Maximum<br>duty cycle | Pressure range <sup>2.)</sup> | Article no.                                                                                  |                                                                                              |                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|----------------------------------------------|-----------------------------|-----------------------|-------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-------------------------|
|                                                                                                                                                                      |                 | [mm]    | [m³/h]                                       |                             |                       | [V/Hz/W]                      | Ambient temperature<br>+ 55 °C                                                               | Brass body                                                                                   | Stainless<br>steel body |
|                                                                                                                                                                      |                 |         |                                              |                             |                       |                               | Air + water<br>[bar]                                                                         | FKM seal                                                                                     |                         |
| <b>CFC</b><br>3/2-way solenoid<br>valve<br>Direct-acting<br>Normally closed<br><br> | G 1/8           | 1.2     | 0.045                                        | 24 / AC/DC / 6              | 100 % ED              | 0...8                         | 20017950  | 20053187  |                         |
|                                                                                                                                                                      |                 |         |                                              | 230 / AC/DC / 6             |                       | 0...8                         | 20017953  | 20053193  |                         |
|                                                                                                                                                                      |                 |         |                                              | 24 / AC / 6                 |                       | 0...11                        | 20017952  | 20077468  |                         |
|                                                                                                                                                                      |                 |         |                                              | 230 / AC / 6                |                       | 0...11                        | 20077471  | 20077470  |                         |
|                                                                                                                                                                      |                 | 1.6     | 0.060                                        | 24 / AC/DC / 6              | 100 % ED              | 0...4                         | 20017954  | 20053195  |                         |
|                                                                                                                                                                      |                 |         |                                              | 230 / AC/DC / 6             |                       | 0...4                         | 20017958  | 20053196  |                         |
|                                                                                                                                                                      |                 |         |                                              | 24 / AC / 6                 |                       | 0...5.5                       | 20017957  | 20077485  |                         |
|                                                                                                                                                                      |                 |         |                                              | 230 / AC / 6                |                       | 0...5.5                       | 20077475  | 20077478  |                         |
|                                                                                                                                                                      |                 | 2.0     | 0.110                                        | 24 / AC/DC / 6              | 100 % ED              | 0...3                         | 20017961  | 20053197  |                         |
|                                                                                                                                                                      |                 |         |                                              | 230 / AC/DC / 6             |                       | 0...3                         | 20010156  | 20053199  |                         |
|                                                                                                                                                                      |                 |         |                                              | 24 / AC / 6                 |                       | 0...4                         | 20017959  | 20077490  |                         |
|                                                                                                                                                                      |                 |         |                                              | 230 / AC / 6                |                       | 0...4                         | 20025746  | 20077492  |                         |

1.) Measurement at + 20 °C, 1 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<br>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 <sup>-4</sup> mbar l/sec                                                                                      |
|                                                                  | PC08             | Leakage rate *less than 10 <sup>-5</sup> mbar l/sec                                                                                      |
|                                                                  | PC06             | Leakage rate *less than 10 <sup>-6</sup> mbar l/sec                                                                                      |
| Vacuum variant                                                   | on request       | —                                                                                                                                        |

## 8.5. Ordering chart accessories

## Single manifold

## Note:

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

## Multiple manifold

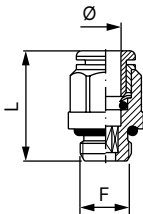
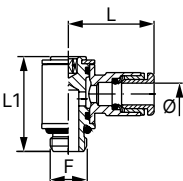
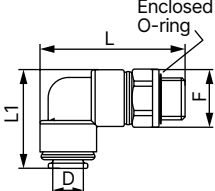
## Note:

Further ordering information can be found in chapter "5.6. Multiple manifold" on page 16.

## Accessories for manifolds

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

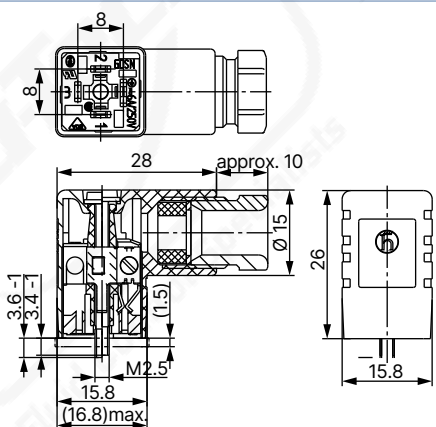
## Accessories for G 1/8" threaded connections

| Accessories                                                                        | Material             | Connection diameter | F     | L    | L1   | Article no.                                                                                |
|------------------------------------------------------------------------------------|----------------------|---------------------|-------|------|------|--------------------------------------------------------------------------------------------|
|                                                                                    |                      | [mm]                | [mm]  | [mm] | [mm] |                                                                                            |
| Straight push-in connector with O-Ring                                             |                      |                     |       |      |      |                                                                                            |
|   | Brass, nickel-plated | 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                                         |                      |                     |       |      |      |                                                                                            |
|   | Brass, nickel-plated | 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  |
|  | 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:

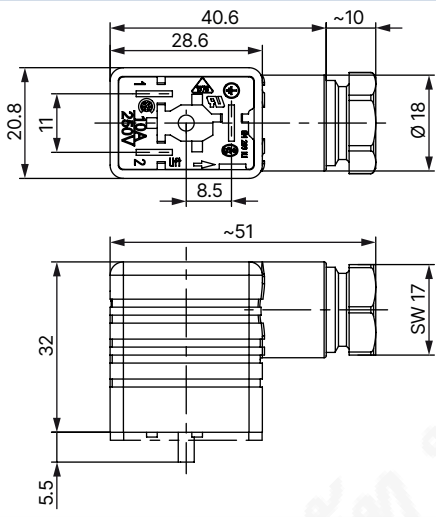
- Dimensions in mm
- Delivery of cable plug includes a flat seal and a fixing screw.
- For further variants see data sheet **Type 2516** 

| Cable plug                                                                          | Dimensions                                                                          | Variant                          | Voltage         | Article no.                                                                                  |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------|-----------------|----------------------------------------------------------------------------------------------|
|  |  | Without circuitry                | 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 fixing screw.
- Refer to data sheet **Type 2507** ▶ for more information about the cable plug.

| Cable plug                                                                        | Dimensions                                                                         | Variant                          | Voltage         | Article no. |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------|-----------------|-------------|
|  |  | Without circuitry (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 | 2...250 V AC/DC | 423854      |
|                                                                                   |                                                                                    |                                  | 12...24 V AC/DC | 423853      |