



## Plunger valve 3/2-way direct-acting

- Direct-acting, compact valve with diameter of up to DN 2.5
- Vibration-proof, bolted coil system
- Banjo threaded connection for direct mounting on pneumatic valves
- Explosion proof variants
- Energy-saving variants with Kick and Drop available

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

### Can be combined with

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

### Type description

Valve 6014 is a direct-acting plunger valve. The stopper and core guide tube are welded together to enhance pressure resistance and leak-tightness. Various seal material combinations are available depending on the application. A Bürkert-specific flange variant (SFB) enables space-saving arrangement of valves on a manifold. Kick and Drop coils are available for the reduction of electrical power consumption during operation.

## Table of contents

|                                                                  |           |
|------------------------------------------------------------------|-----------|
| <b>1. General technical data</b>                                 | <b>4</b>  |
| <b>2. Circuit functions</b>                                      | <b>5</b>  |
| <b>3. Approvals and conformities</b>                             | <b>5</b>  |
| 3.1. General notes .....                                         | 5         |
| 3.2. Conformity .....                                            | 5         |
| 3.3. Standards .....                                             | 5         |
| 3.4. Explosion protection .....                                  | 6         |
| 3.5. North America (USA/Canada) .....                            | 6         |
| 3.6. Drinking water .....                                        | 7         |
| 3.7. Foods and beverages/Hygiene .....                           | 7         |
| 3.8. Others .....                                                | 7         |
| DNV GL classification .....                                      | 7         |
| Fire protection on railway vehicles .....                        | 8         |
| <b>4. Materials</b>                                              | <b>8</b>  |
| 4.1. Bürkert resistApp .....                                     | 8         |
| 4.2. Material specifications .....                               | 8         |
| Standard variant .....                                           | 8         |
| Banjo variant .....                                              | 9         |
| ATEX/IECEX m cable variant .....                                 | 9         |
| ATEX/IECEX m terminal box variant .....                          | 10        |
| <b>5. Dimensions</b>                                             | <b>11</b> |
| 5.1. Standard variant .....                                      | 11        |
| Pin assignment .....                                             | 12        |
| 5.2. Banjo variant .....                                         | 12        |
| With 76 mm banjo bolt .....                                      | 12        |
| With 60 mm banjo bolt .....                                      | 13        |
| 5.3. ATEX/IECEX m cable variant .....                            | 14        |
| 5.4. ATEX/IECEX m terminal box variant .....                     | 15        |
| 5.5. ATEX/IECEX ia variant .....                                 | 16        |
| 5.6. Single manifold .....                                       | 17        |
| 5.7. Multiple manifold .....                                     | 17        |
| 5.8. Manifolds for block mounting .....                          | 18        |
| <b>6. Performance specifications</b>                             | <b>18</b> |
| 6.1. Power consumption .....                                     | 18        |
| 6.2. Utilisation in another circuit function .....               | 18        |
| 6.3. Electrical data explosion-proof variant EEx ia .....        | 19        |
| <b>7. Product installation</b>                                   | <b>19</b> |
| 7.1. Installation notes .....                                    | 19        |
| Control for impulse variant with polarity reversal control ..... | 19        |
| <b>8. Product accessories</b>                                    | <b>20</b> |
| 8.1. Cable glands for ATEX/IECEX terminal box .....              | 20        |
| 8.2. Special tool to turn the terminal box .....                 | 20        |

|                                                                     |           |
|---------------------------------------------------------------------|-----------|
| <b>9. Ordering information</b>                                      | <b>21</b> |
| 9.1. Bürkert eShop .....                                            | 21        |
| 9.2. Bürkert product filter .....                                   | 21        |
| 9.3. Bürkert Product Enquiry Form .....                             | 21        |
| 9.4. Ordering chart .....                                           | 22        |
| Standard variant .....                                              | 22        |
| Banjo variant .....                                                 | 24        |
| ATEX/IECEX m cable variant .....                                    | 25        |
| ATEX/IECEX m terminal box variant .....                             | 26        |
| ATEX/IECEX ia variant .....                                         | 27        |
| 9.5. Ordering chart accessories .....                               | 27        |
| Single manifold .....                                               | 27        |
| Multiple manifold .....                                             | 27        |
| Cable plug Type 2518, form A according to DIN EN 175301 - 803 ..... | 27        |
| Cable plug Type 2509, form A according to DIN EN 175301 - 803 ..... | 28        |
| Cable glands for ATEX/IECEX terminal box .....                      | 28        |

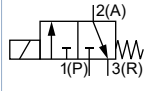
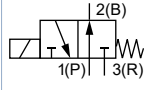
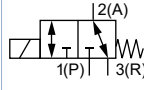
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## 1. General technical data

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product properties</b>                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Dimensions                                  | Further information can be found in chapter <a href="#">“5. Dimensions” on page 11.</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Material</b>                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Seal                                        | FKM (EPDM on request)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Body                                        | Brass, stainless steel 1.4305/303, polyamide (sub-base)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Coil                                        | Polyamide (epoxy on request)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Manual override                             | This is an “emergency manual override” which allows manual operation in the event of a fault. (Leakage possible)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Orifice                                     | DN 1.5...DN 2.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Circuit function                            | C, D and T<br>Further information can be found in chapter <a href="#">“2. Circuit functions” on page 5.</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Thermal insulation class of solenoid coil   | Polyamide coil class B<br>Epoxy coil class H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Performance data</b>                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Duty cycle/single valve with block assembly | 100 % continuous operation<br>Intermittent operation 60 % (30 min) or with 5 W coil (on request)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Electrical data</b>                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 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 (other voltages on request)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Power consumption                           | Further information can be found in chapter <a href="#">“6.1. Power consumption” on page 18.</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Voltage tolerance                           | ± 10 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Medium data</b>                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Operating medium                            | Technical vacuum, neutral gases and liquids (e.g. compressed air, town gas, natural gas, water, hydraulic oil, petrol)                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Medium temperature</b>                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| With FKM                                    | - 10 °C...+ 100 °C (PA coil), - 10 °C...+ 120 °C (epoxy coil), - 40 °C on request                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| With PTFE/Graphite                          | - 40 °C...+ 180 °C (further information can be found in chapter <a href="#">“4.1. Bürkert resistApp” on page 8)</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| With FKM, circuit function B                | - 10 °C...+ 100 °C (AC), - 10 °C...+ 120 °C (DC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Viscosity                                   | Max. 21 mm <sup>2</sup> /s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Product connections</b>                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Electrical connection                       | <ul style="list-style-type: none"> <li>Plug contacts according to DIN EN 175 301 - 803 form A for cable plug <b>Type 2518</b> ▶. Further information can be found in chapter <a href="#">“Cable plug Type 2518, form A according to DIN EN 175301 - 803” on page 27.</a></li> <li>Plug contacts according to DIN EN 175 301 - 803 form A for cable plug <b>Type 2509</b> ▶. Further information can be found in chapter <a href="#">“Cable plug Type 2509, form A according to DIN EN 175301 - 803” on page 28.</a></li> <li>ATEX/IECEx variant with 3 m moulded cable or terminal box</li> </ul> |
| Port connection                             | G 1/8, G 1/4, NPT 1/8, NPT 1/4, sub-base (SFB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Approvals and conformities</b>           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Degree of protection                        | IP65 with cable plug <b>Type 2518</b> ▶<br>NEMA 4X with cable plug <b>Type 2509</b> ▶ with stainless steel variants                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Explosion protection                        | Further information can be found in chapter <a href="#">“3.4. Explosion protection” on page 6.</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 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="#">“3.5. North America (USA/Canada)” 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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Others                                      | Further information can be found in chapter <a href="#">“3.8. Others” on page 7.</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Environment and installation</b>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Installation position                       | As required, preferably with actuator upright                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Ambient temperature                         | Max. + 55 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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                              |
|  | <b>Circuit function T (CF T)</b><br>3/2-way solenoid valve<br>Direct-acting<br>Flow direction optional<br>Normally closed |

3. Approvals and conformities

3.1. General notes

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

3.2. Conformity

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

3.3. Standards

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

### 3.4. Explosion protection

Approval




Description

Optional: Explosion protection according to category 2 (zone 1/21)

Ex marking of the components according to the following table:

| Coil Type AC10                                                                                                                                                                     |                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Coils with cable outlet                                                                                                                                                            | Coils with terminal box                                                                                                                                                                        |
| <b>ATEX:</b><br>EPS 18 ATEX 1232 X<br>II 2G Ex mb IIC T4 Gb<br>II 2D Ex mb IIIC T130 °C Db<br><br><b>IECEx:</b><br>IECEx EPS 18.0110 X<br>Ex mb IIC T4 Gb<br>Ex mb IIIC T130 °C Db | <b>ATEX:</b><br>EPS 18 ATEX 1232 X<br>II 2G Ex eb mb IIC T4 Gb<br>II 2D Ex mb tb IIIC T130 °C Db<br><br><b>IECEx:</b><br>IECEx EPS 18.0110 X<br>Ex eb mb IIC T4 Gb<br>Ex mb tb IIIC T130 °C Db |

Coil Type AC10 (Ex-i variant)

**ATEX:**  
 EPS 18 ATEX 1 088 X  
 II 2G Ex ia IIC T6/T4 Gb  
 II 2D Ex ia IIIC T135 °C Db  
  
**IECEx:**  
 IECEx EPS 18.0038 X  
 Ex ia IIC T6/T4 Gb  
 Ex ia IIIC T135 °C Db

Optional: Explosion protection according to category 3 (zone 2/22)

Ex marking of the components according to the following table:

| Coil Type AC10                                                                                                                                                                    |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Coil with plug contacts form A and cable plug Type 2509                                                                                                                           |  |
| <b>ATEX:</b><br>EPS 21 ATEX 1234 X<br>II 3G Ex ec IIC T4 Gc<br>II 3D Ex tc IIIC T135 °C Dc<br><br><b>IECEx:</b><br>IECEx EPS 21.0078X<br>Ex ec IIC T4 Gc<br>Ex tc IIIC T135 °C Dc |  |

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

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

| Approval                                                                          | Description                                                                                                                                                                                                                                                                                      |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>Optional: UL Recognized for the USA (valid for valves)</b><br>The valves are UL Recognized for the USA according to: <ul style="list-style-type: none"> <li>UL 429 (electrically operated valves)</li> </ul>                                                                                  |
|  | <b>Optional: CSA for Canada (valid for valves)</b><br>The valves are CSA approved for Canada according to: <ul style="list-style-type: none"> <li>CSA 139 (electrically operated valves)</li> </ul>                                                                                              |
|  | <b>Optional: FM (Factory Mutual) – Explosion Protection (valid for coils)</b><br>FM for Hazardous Locations for USA and Canada<br>Class I, Zone 1<br>Class I, Division 1, Groups A, B, C and D<br>Class II + III, Division 1, Groups E, F and G                                                  |
| CRN                                                                               | <b>Canadian Registration Number (CRN) – Technical Standards and Safety Act, Boilers and Pressure Vessels Regulation, and CSA Standard B51</b><br>The product fittings comply with all of the requirements of ASME Section B31.3 (Process Piping).<br><br>Registration number Canada: 0C2430.C R2 |

### 3.6. Drinking water

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

### 3.7. Foods and beverages/Hygiene

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

### 3.8. Others

#### DNV GL classification

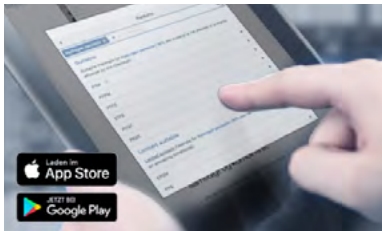
| Approval                                                                            | Description                                                                                                                                                          |
|-------------------------------------------------------------------------------------|----------------------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

Fire protection on railway vehicles

| Approval     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DIN EN 45545 | <b>Optional: Fire protection on railway vehicles in accordance with DIN EN 45545 applicable parts 2 and 5: requirements for fire behaviour of materials and components</b><br>The products comply with the fire protection requirements in accordance with applicable parts 2 and 5 of DIN EN 45545 for use in the interior of railway vehicles for operating classes 1 - 3 (OC1 - 3) in conjunction with hazard levels 1 - 2 (HL1 - 2) in accordance with the manufacturer's declaration. |

4. Materials

4.1. Bürkert resistApp



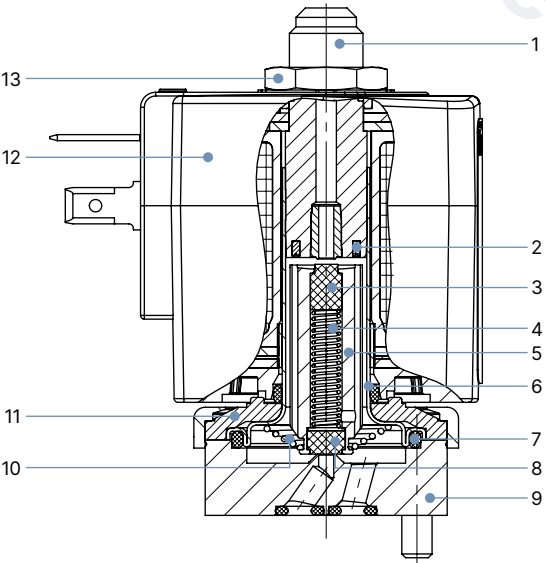
Bürkert resistApp – Chemical resistance chart

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

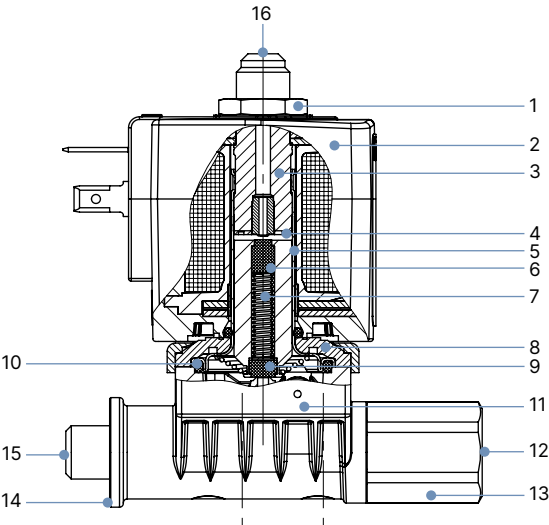
Standard variant



| No. | Element         | Material                                                                                                                        |
|-----|-----------------|---------------------------------------------------------------------------------------------------------------------------------|
| 1   | Stopper         | Stainless steel 1.4105/430F                                                                                                     |
| 2   | Shading ring    | Cu (brass variant)<br>Ag (stainless steel variant)                                                                              |
| 3   | Plunger seal    | FKM                                                                                                                             |
| 4   | Spring          | Stainless steel 1.4310/301                                                                                                      |
| 5   | Magnetic core   | Stainless steel 1.4105/430F                                                                                                     |
| 6   | Core guide tube | Stainless steel 1.4303/305/308                                                                                                  |
| 7   | O-ring          | FKM                                                                                                                             |
| 8   | Plunger seal    | FKM                                                                                                                             |
| 9   | Valve body      | Brass<br>Stainless steel 1.4305/303<br>Stainless steel 1.4401/316                                                               |
| 10  | Spring          | Stainless steel 1.4310/301                                                                                                      |
| 11  | Sub-base        | Steel, surface finish thick-film passivated (brass variant)<br>Stainless steel 1.4301/304 (stainless steel variant)             |
| 12  | Coil            | PA (Polyamide)<br>Epoxy (High temperature variant)                                                                              |
| 13  | Nut             | Steel, surface finish thick-film passivated (brass variant)<br>Stainless steel 1.4305/303 PTFE coated (stainless steel variant) |

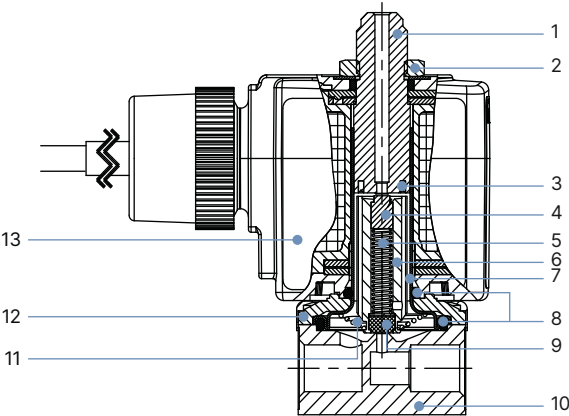


**Banjo variant**



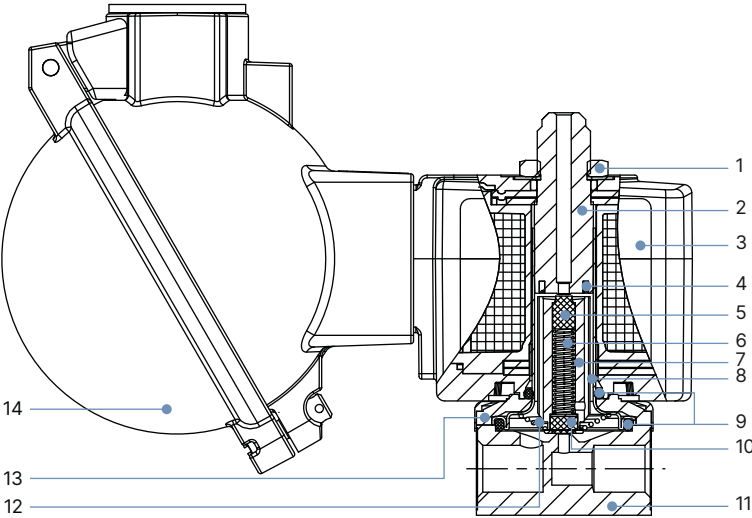
| No. | Element               | Material                                                                                                                        |
|-----|-----------------------|---------------------------------------------------------------------------------------------------------------------------------|
| 1   | Nut                   | Steel, surface finish thick-film passivated (brass variant)<br>Stainless steel 1.4305/303 PTFE coated (stainless steel variant) |
| 2   | Coil                  | PA (Polyamide)<br>Epoxy (High temperature variant)                                                                              |
| 3   | Stopper               | Stainless steel 1.4105/430F                                                                                                     |
| 4   | Shading ring          | Cu (brass variant)<br>Ag (stainless steel variant)                                                                              |
| 5   | Core guide tube       | Stainless steel 1.4303/305/308                                                                                                  |
| 6   | Magnetic core         | Stainless steel 1.4105/430F                                                                                                     |
| 7   | Spring                | Stainless steel 1.4310/301                                                                                                      |
| 8   | Sub-base              | Steel, surface finish thick-film passivated (brass variant)<br>Stainless steel 1.4301/304 (stainless steel variant)             |
| 9   | Plunger seal          | FKM                                                                                                                             |
| 10  | O-ring                | FKM                                                                                                                             |
| 11  | Valve body            | PPS                                                                                                                             |
| 12  | Pressure connection P | –                                                                                                                               |
| 13  | Screw                 | Brass/Stainless steel 1.4301/304                                                                                                |
| 14  | O-ring                | FKM                                                                                                                             |
| 15  | Pressure connection A | –                                                                                                                               |
| 16  | R connection          | –                                                                                                                               |

**ATEX/IECEx m cable variant**



| No. | Element         | Material                                                                                                                        |
|-----|-----------------|---------------------------------------------------------------------------------------------------------------------------------|
| 1   | Stopper         | Stainless steel 1.4105/430F                                                                                                     |
| 2   | Nut             | Steel, surface finish thick-film passivated (brass variant)<br>Stainless steel 1.4305/303 PTFE coated (stainless steel variant) |
| 3   | Shading ring    | Cu (brass variant)<br>Ag (stainless steel variant)                                                                              |
| 4   | Plunger seal    | FKM                                                                                                                             |
| 5   | Spring          | Stainless steel 1.4310/301                                                                                                      |
| 6   | Magnetic core   | Stainless steel 1.4105/430F                                                                                                     |
| 7   | Core guide tube | Stainless steel 1.4303/305/308                                                                                                  |
| 8   | O-ring          | FKM                                                                                                                             |
| 9   | Plunger seal    | FKM                                                                                                                             |
| 10  | Valve body      | Brass<br>Stainless steel 1.4305/303<br>Stainless steel 1.4401/316                                                               |
| 11  | Spring          | Stainless steel 1.4310/301                                                                                                      |
| 12  | Sub-base        | Steel, surface finish thick-film passivated (brass variant)<br>Stainless steel 1.4301/304 (stainless steel variant)             |
| 13  | Coil            | Epoxy                                                                                                                           |

ATEX/IECEx m terminal box variant



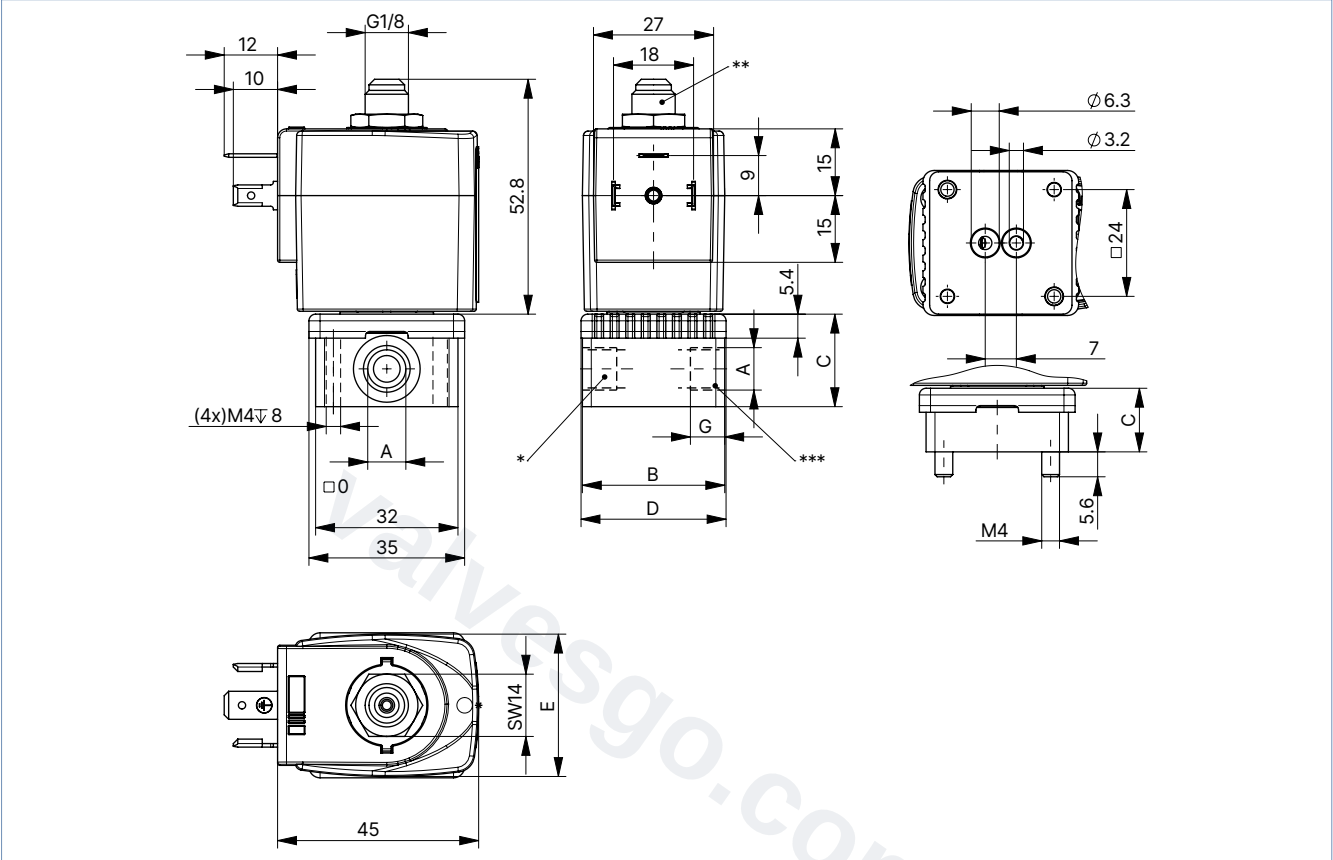
| No. | Element         | Material                                                                                                                        |
|-----|-----------------|---------------------------------------------------------------------------------------------------------------------------------|
| 1   | Nut             | Steel, surface finish thick-film passivated (brass variant)<br>Stainless steel 1.4305/303 PTFE coated (stainless steel variant) |
| 2   | Stopper         | Stainless steel 1.4105/430F                                                                                                     |
| 3   | Coil            | Epoxy                                                                                                                           |
| 4   | Shading ring    | Cu (brass variant)<br>Ag (stainless steel variant)                                                                              |
| 5   | Plunger seal    | FKM                                                                                                                             |
| 6   | Spring          | Stainless steel 1.4310/301                                                                                                      |
| 7   | Magnetic core   | Stainless steel 1.4105/430F                                                                                                     |
| 8   | Core guide tube | Stainless steel 1.4303/305/308                                                                                                  |
| 9   | O-ring          | FKM                                                                                                                             |
| 10  | Plunger seal    | FKM                                                                                                                             |
| 11  | Valve body      | Brass<br>Stainless steel 1.4305/303 (G 1/8)<br>Stainless steel 1.4401/316 (G 1/4)                                               |
| 12  | Spring          | Stainless steel 1.4310/301                                                                                                      |
| 13  | Sub-base        | Steel, surface finish thick-film passivated (brass variant)<br>Stainless steel 1.4301/304 (stainless steel variant)             |
| 14  | Terminal box    | Aluminium                                                                                                                       |

DTS 1000011035 EN Version: AA Status: RL (released | freigegeben | valide) printed: 22.05.2026

5. Dimensions

5.1. Standard variant

**Note:**  
Dimensions in mm



| Port connection                  | A      | B    | C    | D    | G    |
|----------------------------------|--------|------|------|------|------|
|                                  | [inch] | [mm] | [mm] | [mm] | [mm] |
| Threaded without manual override | G 1/8  | 32   | 20.8 | 32.6 | 8    |
|                                  | G 1/4  | 46   | 26.8 | 49   | 12   |
| Threaded with manual override    | G 1/8  | 32   | 20.8 | 32.6 | 8    |
|                                  | G 1/4  | 46   | 26.8 | 49   | 12   |
| Sub-base                         | —      | 32   | 14.3 | 32.6 | —    |

| Coil size | E    | F    |
|-----------|------|------|
|           | [mm] | [mm] |
| 5         | 32   | 45   |
| 6         | 40   | 51   |

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 circuit functions A or B connections will be closed off with a blanking plug or cap nut.

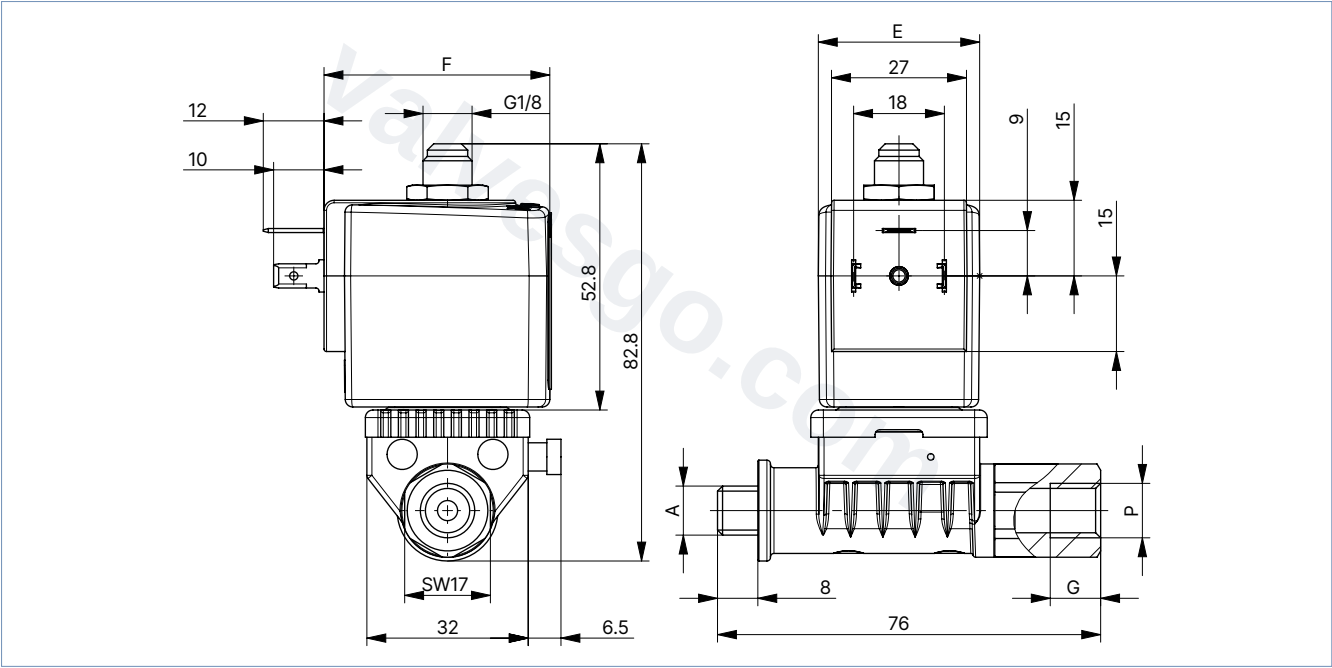
| Circuit function | Connection Type |           |     |
|------------------|-----------------|-----------|-----|
|                  | *               | **        | *** |
| A                | P               | blank off | A   |
| B                | blank off       | B         | P   |
| C                | P               | R         | A   |
| D                | R               | P         | B   |
| T                | P               | R         | A   |

5.2. Banjo variant

With 76 mm banjo bolt

Note:

Dimensions in mm

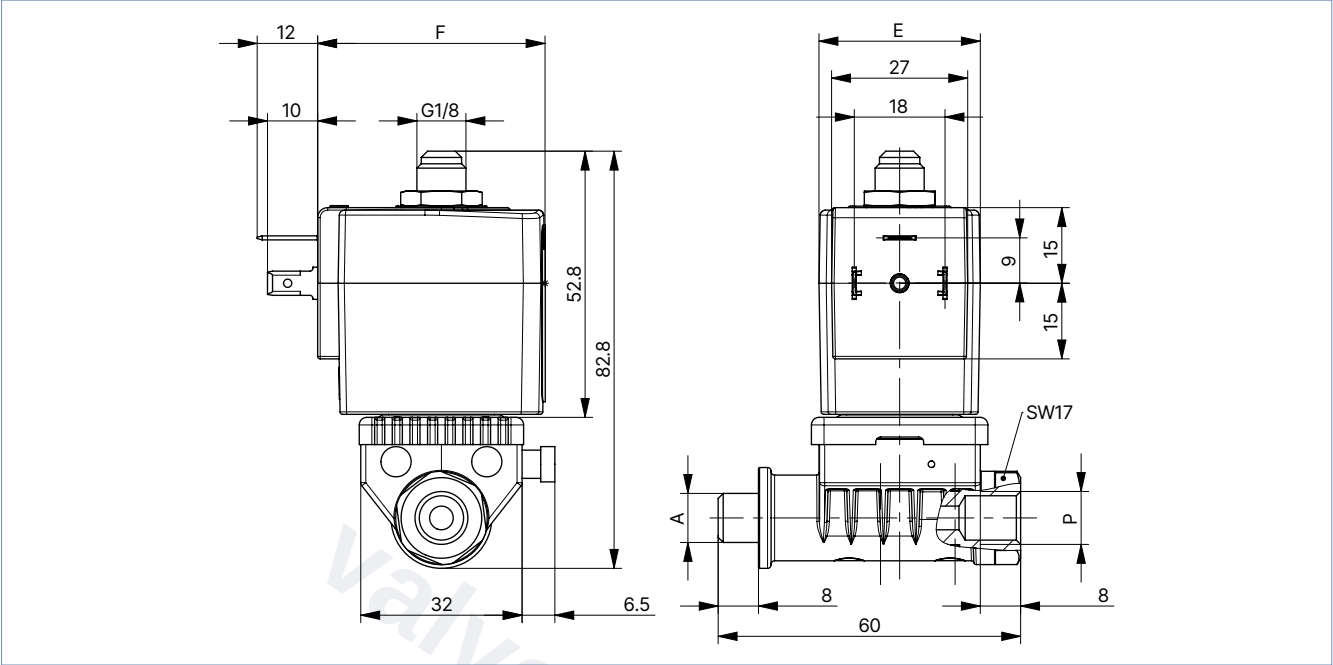


| Variant | A      | P       | G    |
|---------|--------|---------|------|
|         | [inch] | [inch]  | [mm] |
| BJ02    | G 1/4  | G 1/4   | 10   |
| BJ03    | G 1/8  | NPT 1/4 |      |
| BJ04    | G 1/4  | NPT 1/4 |      |
| BJ05    | G 1/8  | G 1/4   |      |
| BJ07    | G 1/8  | NPT 1/8 |      |

| Coil size | E    | F    |
|-----------|------|------|
|           | [mm] | [mm] |
| 5         | 32   | 45   |
| 6         | 40   | 51   |

With 60 mm banjo bolt

**Note:**  
Dimensions in mm

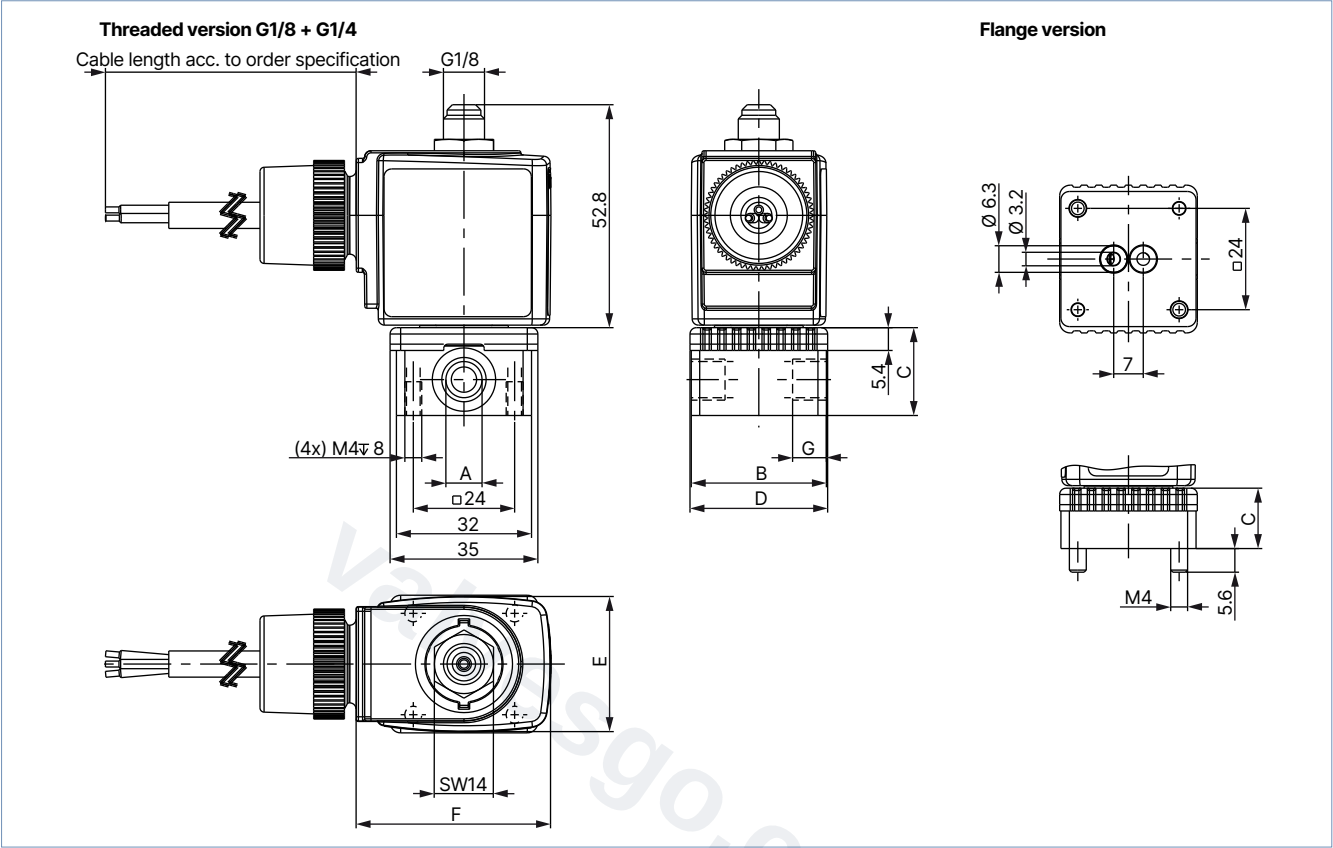


| Variant | A      | P      |
|---------|--------|--------|
|         | [inch] | [inch] |
| BJ01    | G 1/8  | G 1/8  |
| BJ06    | G 1/4  | G 1/8  |

| Coil size | E    | F    |
|-----------|------|------|
|           | [mm] | [mm] |
| 5         | 32   | 45   |
| 6         | 40   | 51   |

5.3. ATEX/IECEx m cable variant

**Note:**  
Dimensions in mm

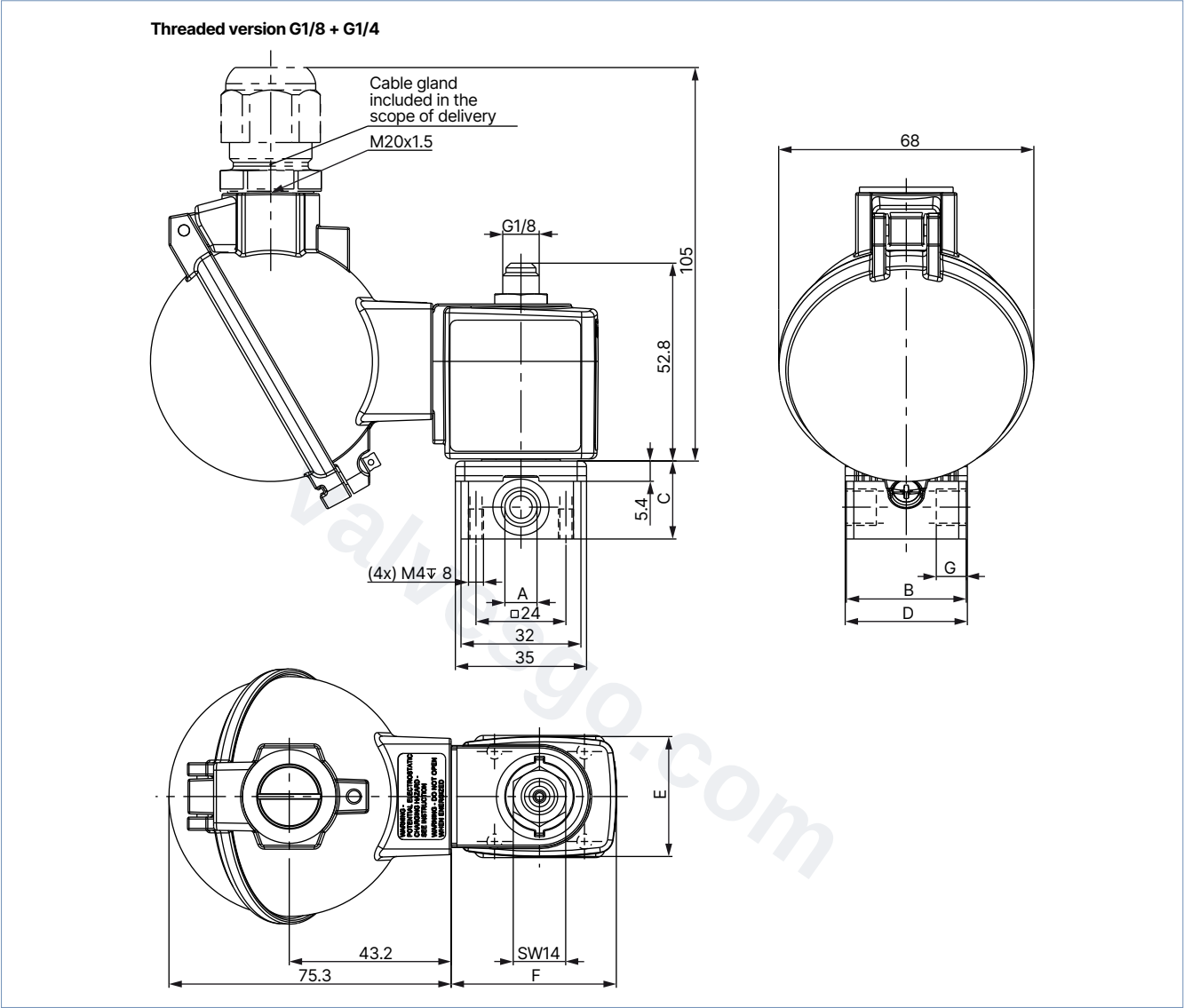


| Port connection  | A      | B    | C    | D    | G    |
|------------------|--------|------|------|------|------|
|                  | [inch] | [mm] | [mm] | [mm] | [mm] |
| Threaded variant | G 1/8  | 32   | 20.8 | 32.6 | 8    |
|                  | G 1/4  | 46   | 26.8 | 49   | 12   |
| Sub-base variant | –      | 32   | 14.3 | 32.6 | –    |

| Coil size | E    | F    |
|-----------|------|------|
|           | [mm] | [mm] |
| 5         | 32   | 46   |
| 6         | 40   | 52   |

5.4. ATEX/IECEx m terminal box variant

**Note:**  
Dimensions in mm



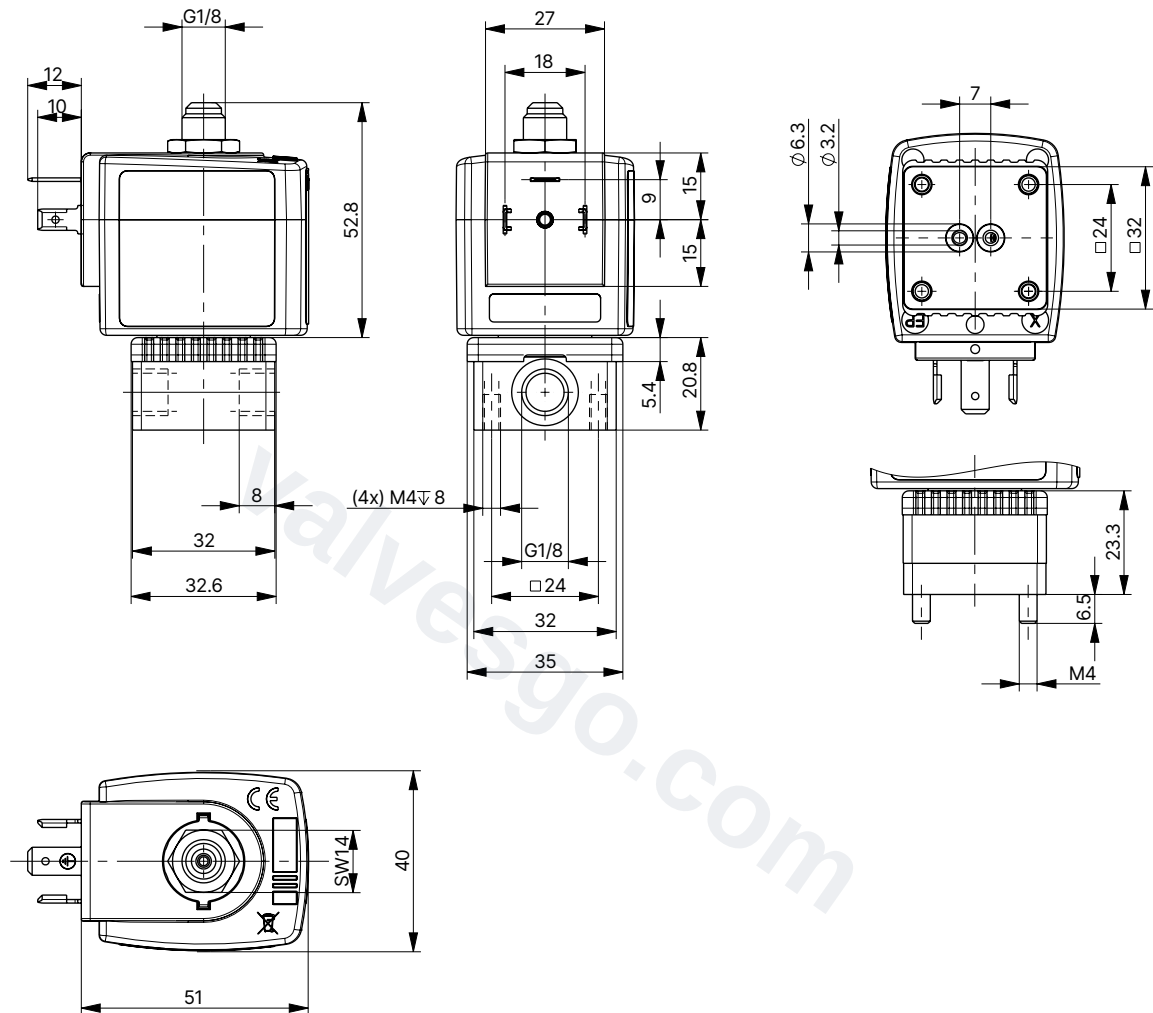
| Port connection  | A      | B    | C    | D    | G    |
|------------------|--------|------|------|------|------|
|                  | [inch] | [mm] | [mm] | [mm] | [mm] |
| Threaded variant | G 1/8  | 32   | 20.8 | 32.6 | 8    |
|                  | G 1/4  | 46   | 26.8 | 49   | 12   |
| Sub-base variant | –      | 32   | 14.3 | 32.6 | –    |

| Coil size | E    | F    |
|-----------|------|------|
|           | [mm] | [mm] |
| 5         | 32   | 44   |
| 6         | 40   | 51   |

### 5.5. ATEX/IECEx ia variant

**Note:**

- Dimensions in mm
- Further information about electrical data can be found in chapter “6.3. Electrical data explosion-proof variant EEx ia” on page 19.

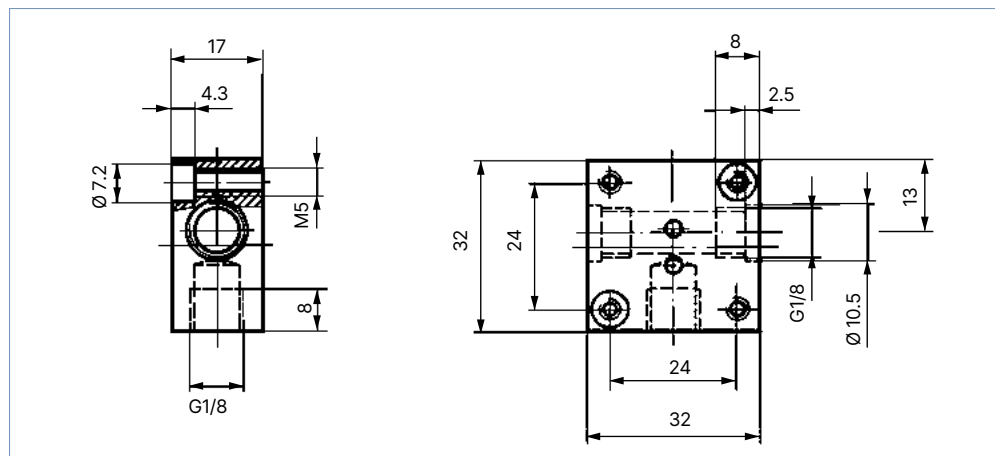




## 5.6. Single manifold

### Note:

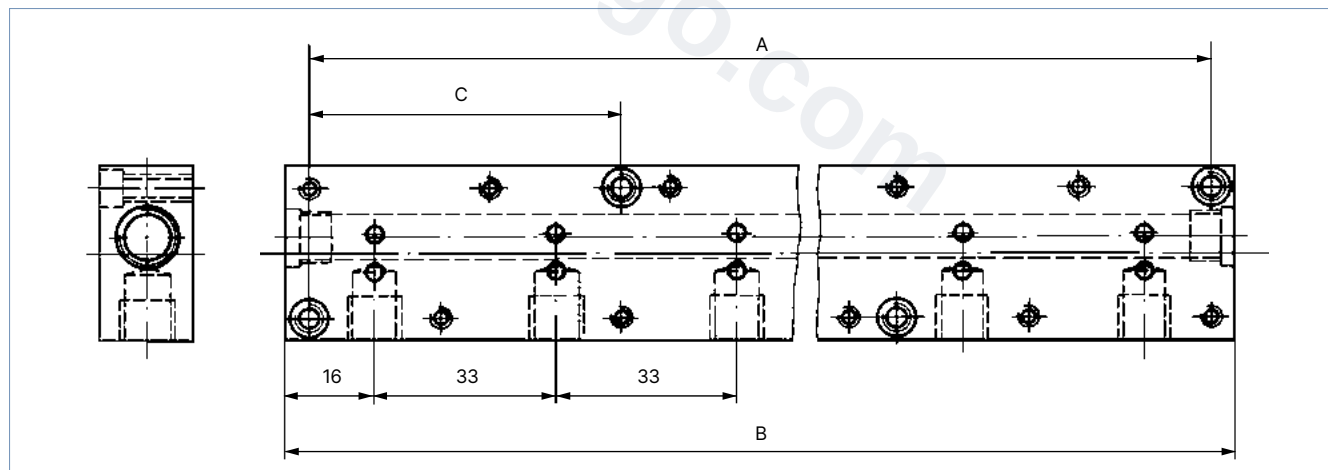
- Dimensions in mm
- Further information about the installation of manifolds can be found in chapter "5.8. Manifolds for block mounting" on page 18.



## 5.7. Multiple manifold

### Note:

- Dimensions in mm
- The manifold is only possible with coil size 5.
- Brass or stainless steel manifolds is available on request.



| Accessory parts                                                              | Number of valve positions | Hole spacing A |        | Total length B |        | Hole spacing C |        | Article no. |
|------------------------------------------------------------------------------|---------------------------|----------------|--------|----------------|--------|----------------|--------|-------------|
|                                                                              |                           | [mm]           | [inch] | [mm]           | [inch] | [mm]           | [inch] |             |
| Multiple manifold (aluminium)                                                | 2                         | 57             | 2.24   | 65             | 2.56   | –              | –      | 005023      |
|                                                                              | 3                         | 90             | 3.54   | 98             | 3.86   | –              | –      | 005286      |
|                                                                              | 4                         | 123            | 4.84   | 131            | 5.16   | –              | –      | 005287      |
|                                                                              | 5                         | 156            | 6.14   | 164            | 6.46   | 57             | 2.24   | 005035      |
|                                                                              | 6                         | 189            | 7.44   | 197            | 7.76   | 57             | 2.24   | 005038      |
|                                                                              | 8                         | 255            | 10     | 263            | 10.35  | 90             | 3.54   | 005386      |
|                                                                              | 10                        | 321            | 12.64  | 329            | 12.95  | 90             | 3.54   | 005764      |
| Single manifold (aluminium)                                                  |                           |                |        |                |        |                |        | 005020      |
| Plug nipple with O-rings for connecting manifolds                            |                           |                |        |                |        |                |        | 005040      |
| Covering plate with screws and O-ring for closing off unused valve positions |                           |                |        |                |        |                |        | 005630      |

## 5.8. Manifolds for block mounting

### Note:

- Close open ports for valves that are not required with cover plates (see accessories).
- Fasten the manifolds to a standard rail.
- Refer to chapter "5.7. Multiple manifold" on page 17 for more information about the dimensions.

With manifold mounting, please comply with the permissible duty cycle (5 W variants with 100 % continuous rating or 8 W variant with 60 % duty cycle). The pressure port for the manifold is designated with P (R), and the outlet port with A (B). Only connect together ports with the same designation.

2/2-way valves of Type 6013 can be operated together on a manifold with 3/2-way valves of Type 6014, circuit function C (not D or T!) if the operating pressures matches according to the rating plates. The manifolds can also be expanded if the valve functions are taken into consideration. Connector nipples with O-rings are used to connect the P (R) ports.

## 6. Performance specifications

### 6.1. Power consumption

| Orifice<br>[mm] | Coil power<br>[W]    | Power consumption |                   | Response times <sup>1)</sup> |                 |
|-----------------|----------------------|-------------------|-------------------|------------------------------|-----------------|
|                 |                      | Inrush AC<br>[VA] | Hold AC<br>[VA/W] | Opening<br>[ms]              | Closing<br>[ms] |
| 1.5             | 8 W AC or 8 W DC (9) | 24                | 8                 | 10...15                      | 15...20         |
| 2.0             | 8 W AC or 8 W DC (9) |                   |                   | 10...15                      | 15...20         |
| 2.5             | 8 W AC or 8 W DC (9) |                   |                   | 15...20                      | 10...22         |

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

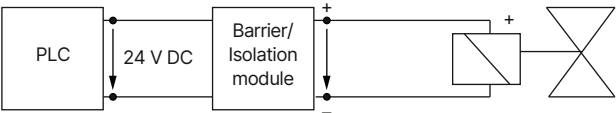
### 6.2. Utilisation in another circuit function

The valves are equipped with different springs for specific circuit functions. When used with other circuit functions, the permissible operating pressure changes according to the following table.

| Standard variant |                  | Max. operating pressure [bar] for valve application in circuit function |     |     |     |     |
|------------------|------------------|-------------------------------------------------------------------------|-----|-----|-----|-----|
| DN               | Circuit function | A                                                                       | B   | C   | D   | T   |
| 1.5              | C                | 16                                                                      | 22  | 16  | 2   | 2   |
|                  | D                | 2                                                                       | 2.5 | 2   | 16  | 2   |
|                  | T                | 10                                                                      | 16  | 10  | 6   | 6   |
| 2.0              | C                | 10                                                                      | 14  | 10  | 1   | 1   |
|                  | D                | 1                                                                       | 1.5 | 1   | 10  | 1   |
|                  | T                | 6                                                                       | 10  | 6   | 4   | 4   |
| 2.5              | C                | 6                                                                       | 9   | 6   | 0.7 | 0.7 |
|                  | D                | 0.7                                                                     | 1   | 0.7 | 6   | 0.7 |
|                  | T                | 3.5                                                                     | 6   | 3.5 | 2.5 | 2.5 |

6.3. Electrical data explosion-proof variant EEx ia

- Note:**
- The valve is intended for operation at 24 V/DC outputs via the intermedia switching of a corresponding intrinsically safe operating resource (isolating module or barrier).
  - Ignition protection class: EEx ia IIC T6 according to PTB-No. Ex- 96.D.2010
  - Further information can be found in the **operating instructions EPS 18 ATEX 1088X** ►.



7. Product installation

7.1. Installation notes

Control for impulse variant with polarity reversal control

- Note:**
- Please use only the cable plug without electrical wiring for the impulse variant.
  - Pulse duration at least 50 ms

| Polarity (is marked on the coil with a label) | Features     | Terminal connections                                |
|-----------------------------------------------|--------------|-----------------------------------------------------|
| - switch ON +                                 | valve open   | (+) on terminal 2 and (-) on terminal 1 (see below) |
| + switch OFF -                                | valve closed | (+) on terminal 1 and (-) on terminal 2 (see below) |

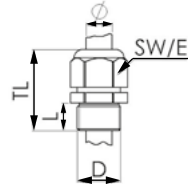
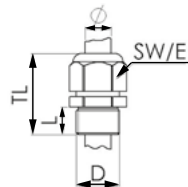
Polarity is marked on the coil with a label:  
- switch ON +  
+ switch OFF -

1  
Protective conductor port  
2

8. Product accessories

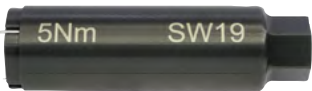
8.1. Cable glands for ATEX/IECEX terminal box

**Note:**  
A polyamide cable gland is included in the scope of delivery. A nickel-plated brass variant can be ordered for a surcharge, see [“Cable glands for ATEX/IECEX terminal box” on page 28.](#)

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

8.2. Special tool to turn the terminal box

**Note:**  
This special tool is not included in the scope of delivery of the valve, see [“Cable glands for ATEX/IECEX terminal box” on page 28.](#)

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

## 9. Ordering information

### 9.1. Bürkert eShop



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

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### 9.2. Bürkert product filter



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

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

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### 9.3. Bürkert Product Enquiry Form

#### Note:

Please see our Product Enquiry Form for a full explanation of our specification key.

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

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

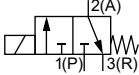
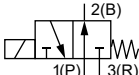
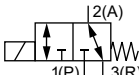
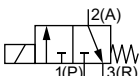
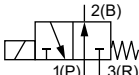
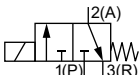
[Fill out the form now](#)

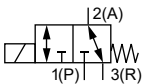
## 9.4. Ordering chart

### Standard variant

#### Note:

Please note that the cable plug has to be ordered separately, see "9.5. Ordering chart accessories" on page 27 or separate datasheet Type 2518 ►.

| Circuit function                                                                                                                                                                            | Port connection | Orifice | K <sub>v</sub> value water <sup>1)</sup> | Coil power | Pressure range <sup>2)</sup> | Article no. |          |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|------------------------------------------|------------|------------------------------|-------------|----------|----------|
|                                                                                                                                                                                             |                 | [mm]    |                                          |            |                              | 024/DC      | 024/50   | 230/50   |
|                                                                                                                                                                                             |                 |         | [m³/h]                                   | [W]        | [bar]                        | [V/Hz]      | [V/Hz]   | [V/Hz]   |
| <b>Threaded variant with FKM seal, (class B)</b>                                                                                                                                            |                 |         |                                          |            |                              |             |          |          |
| <b>Brass body</b>                                                                                                                                                                           |                 |         |                                          |            |                              |             |          |          |
| <b>CF C</b><br>3/2-way solenoid valve<br>Direct-acting<br>Normally closed<br>                              | G 1/8           | 1.5     | 0.07                                     | 8          | 0...16                       | 125329 ㉞    | 125331 ㉞ | 125332 ㉞ |
|                                                                                                                                                                                             | G 1/8           | 2.0     | 0.11                                     | 8          | 0...10                       | 125333 ㉞    | 125334 ㉞ | 125336 ㉞ |
|                                                                                                                                                                                             | G 1/4           |         | 0.11                                     | 8          | 0...10                       | 125348 ㉞    | 126138 ㉞ | 126140 ㉞ |
|                                                                                                                                                                                             | G 1/8           | 2.5     | 0.16                                     | 8          | 0...6                        | 125341 ㉞    | 125340 ㉞ | 125342 ㉞ |
|                                                                                                                                                                                             | G 1/4           |         | 0.16                                     | 8          | 0...6                        | 126142 ㉞    | 126143 ㉞ | 126145 ㉞ |
| <b>CF D</b><br>3/2-way solenoid valve<br>Direct-acting<br>Normally open<br>                               | G 1/8           | 1.5     | 0.07                                     | 8          | 0...16                       | 126195 ㉞    | 126196 ㉞ | 125355 ㉞ |
|                                                                                                                                                                                             | G 1/8           | 2.0     | 0.11                                     | 8          | 0...10                       | 125357 ㉞    | 125358 ㉞ | 125360 ㉞ |
|                                                                                                                                                                                             | G 1/4           |         | 0.11                                     | 8          | 0...10                       | 126198 ㉞    | 126199 ㉞ | 126201 ㉞ |
|                                                                                                                                                                                             | G 1/8           | 2.5     | 0.16                                     | 8          | 0...6                        | 125363 ㉞    | 126202 ㉞ | 126204 ㉞ |
|                                                                                                                                                                                             | G 1/4           |         | 0.16                                     | 8          | 0...6                        | 126205 ㉞    | 126206 ㉞ | 126208 ㉞ |
| <b>CF T</b><br>3/2-way solenoid valve<br>Direct-acting<br>Flow direction optional<br>Normally closed<br> | G 1/8           | 1.5     | 0.07                                     | 8          | 0...7                        | 126150 ㉞    | 126151 ㉞ | 126153 ㉞ |
| <b>With manual override</b>                                                                                                                                                                 |                 |         |                                          |            |                              |             |          |          |
| <b>CF C</b><br>3/2-way solenoid valve<br>Direct-acting<br>Normally closed<br>                            | G 1/8           | 2.0     | 0.11                                     | 8          | 0...10                       | 125337 ㉞    | 125338 ㉞ | 125339 ㉞ |
|                                                                                                                                                                                             | G 1/4           |         | 0.11                                     | 8          | 0...10                       | 125349 ㉞    | 126147 ㉞ | 126149 ㉞ |
| <b>CF D</b><br>3/2-way solenoid valve<br>Direct-acting<br>Normally open<br>                              | G 1/8           | 2.0     | 0.11                                     | 8          | 0...10                       | 126209 ㉞    | 125361 ㉞ | 126211 ㉞ |
|                                                                                                                                                                                             | G 1/4           |         | 0.11                                     | 8          | 0...10                       | 126212 ㉞    | 126213 ㉞ | 126215 ㉞ |
| <b>Stainless steel body</b>                                                                                                                                                                 |                 |         |                                          |            |                              |             |          |          |
| <b>CF C</b><br>3/2-way solenoid valve<br>Direct-acting<br>Normally closed<br>                            | G 1/8           | 1.5     | 0.07                                     | 8          | 0...16                       | 126216 ㉞    | 126217 ㉞ | 126219 ㉞ |
|                                                                                                                                                                                             | G 1/8           | 2.0     | 0.11                                     | 8          | 0...10                       | 126220 ㉞    | 126221 ㉞ | 126223 ㉞ |
|                                                                                                                                                                                             | G 1/4           | 2.0     | 0.11                                     | 8          | 0...10                       | 126224 ㉞    | 126225 ㉞ | 126227 ㉞ |

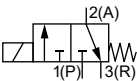
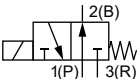
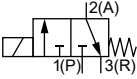
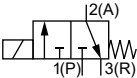
| Circuit function                                                                                                                                                                          | Port connection | Orifice | K <sub>v</sub> value water <sup>1)</sup> | Coil power | Pressure range <sup>2)</sup> | Article no.      |                  |                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|------------------------------------------|------------|------------------------------|------------------|------------------|------------------|
|                                                                                                                                                                                           |                 | [mm]    | [m³/h]                                   |            |                              | 024/DC<br>[V/Hz] | 024/50<br>[V/Hz] | 230/50<br>[V/Hz] |
| <b>CF T</b><br>3/2-way solenoid valve<br>Direct-acting<br>Flow direction optional<br>Normally closed<br> | G 1/8           | 1.5     | 0.07                                     | 8          | 0...7                        | 126228 ㉞         | 126229 ㉞         | 126231 ㉞         |

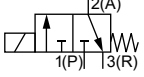
1.) Measurement at + 20 °C, 1 bar<sup>2)</sup> at the valve inlet and free outlet

2.) Pressure data: overpressure to atmospheric pressure

**Note:**

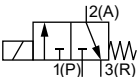
Please note that the cable plug must be ordered separately, see **"9.5. Ordering chart accessories" on page 27** or separate datasheet **Type 2518** ▶.

| Circuit function                                                                                                                                          | Orifice | K <sub>v</sub> value water <sup>1)</sup> | Coil power | Pressure range <sup>2)</sup> | Article no.                                                                                  |                                                                                              |                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------------------------------|------------|------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
|                                                                                                                                                           | [mm]    | [m³/h]                                   | [W]        | [bar]                        | 024/DC<br>[V/Hz]                                                                             | 024/50<br>[V/Hz]                                                                             | 230/50<br>[V/Hz]                                                                             |
| Sub-base body (SFB) with FKM seal (class B)                                                                                                               |         |                                          |            |                              |                                                                                              |                                                                                              |                                                                                              |
| Brass body                                                                                                                                                |         |                                          |            |                              |                                                                                              |                                                                                              |                                                                                              |
| CF C<br>3/2-way solenoid valve<br>Direct-acting<br>Normally closed<br> | 1.5     | 0.07                                     | 8          | 0...16                       | 126154   | 126155   | 125366   |
|                                                                                                                                                           | 2.0     | 0.11                                     | 8          | 0...10                       | 125367  | 125368  | 125370  |
| CF D<br>3/2-way solenoid valve<br>Direct-acting<br>Normally open<br>   | 2.0     | 0.11                                     | 8          | 0...10                       | 126161  | 126162  | 125383  |
|                                                                                                                                                           |         |                                          |            |                              |                                                                                              |                                                                                              |                                                                                              |
| With manual override                                                                                                                                      |         |                                          |            |                              |                                                                                              |                                                                                              |                                                                                              |
| CF C<br>3/2-way solenoid valve<br>Direct-acting<br>Normally closed<br> | 1.5     | 0.07                                     | 5          | 0...10                       | 126403  | 126404  | 126406  |
|                                                                                                                                                           | 1.5     | 0.07                                     | 8          | 0...16                       | 126157  | 126158  | 126160  |
|                                                                                                                                                           | 2.0     | 0.11                                     | 5          | 0...6                        | 126407  | 126408  | 126410  |
|                                                                                                                                                           | 2.0     | 0.11                                     | 8          | 0...10                       | 125371  | 125372  | 125374  |
| Polyamide body                                                                                                                                            |         |                                          |            |                              |                                                                                              |                                                                                              |                                                                                              |
| CF C<br>3/2-way solenoid valve<br>Direct-acting<br>Normally closed<br> | 1.5     | 0.07                                     | 5          | 0...10                       | 126390  | 126391  | 126393  |

| Circuit function                                                                                                                                               | Orifice | K <sub>v</sub> value water <sup>1)</sup> | Coil power | Pressure range <sup>2)</sup> | Article no.      |                  |                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------------------------------|------------|------------------------------|------------------|------------------|------------------|
|                                                                                                                                                                | [mm]    | [m <sup>3</sup> /h]                      | [W]        | [bar]                        | 024/DC<br>[V/Hz] | 024/50<br>[V/Hz] | 230/50<br>[V/Hz] |
| <b>With manual override</b>                                                                                                                                    |         |                                          |            |                              |                  |                  |                  |
| <b>CF C</b><br>3/2-way solenoid valve<br>Direct-acting<br>Normally closed<br> | 1.5     | 0.07                                     | 5          | 0...10                       | 126396 ₺         | 126397 ₺         | 126399 ₺         |

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

2.) Pressure data: overpressure to atmospheric pressure

| Circuit function                                                                                                                                                    | Port connection   |                   | Orifice | K <sub>v</sub> value<br>water <sup>1.)</sup> | Power consumption<br>DC (warm/cold coil) | Pressure<br>range <sup>2.)</sup> | Article no.                                                                                |                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|---------|----------------------------------------------|------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
|                                                                                                                                                                     |                   |                   | [mm]    | [m <sup>3</sup> /h]                          | [W]                                      | [bar]                            | 012/DC<br>[V/Hz]                                                                           | 024/DC<br>[V/Hz]                                                                           |
| Impulse variant with FKM seal and brass body (class H)                                                                                                              |                   |                   |         |                                              |                                          |                                  |                                                                                            |                                                                                            |
| <b>CF C</b><br>3/2-way solenoid valve<br>Direct-acting<br>Normally closed<br><br> | Threaded<br>port  | G 1/8             | 1.5     | 0.07                                         | 7                                        | 0...16                           | 209280  | 209284  |
|                                                                                                                                                                     |                   |                   | 2.0     | 0.11                                         | 7                                        | 0...10                           | 209281  | 209285  |
|                                                                                                                                                                     | Sub-base<br>{SFB} | Sub-base<br>{SFB} | 1.5     | 0.07                                         | 7                                        | 0...16                           | 209278  | 209282  |
|                                                                                                                                                                     |                   |                   | 2.0     | 0.11                                         | 7                                        | 0...10                           | 209279  | 209283  |

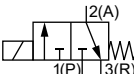
1.) Measurement at + 20 °C, 1 bar<sup>2)</sup> at the valve inlet and free outlet

2.) Pressure data: overpressure to atmospheric pressure

### Banjo variant

#### Note:

- Please note that the cable plug must be ordered separately, see **"9.5. Ordering chart accessories" on page 27** or separate data sheet **Type 2518** ▶
- Stainless steel hollow screws are available on request.

| Circuit function                                                                                                                                                     | Variant | Pressure port P | Working port A (banjo bolt) | banjo bolt | Q <sub>Nn</sub> value air | Power consumption | Pressure range | Material banjo bolt | Article no. |            |            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------|-----------------------------|------------|---------------------------|-------------------|----------------|---------------------|-------------|------------|------------|
|                                                                                                                                                                      |         |                 |                             | [mm]       | [l/min]                   | [W]               | [bar]          |                     | 024/DC      | 024/50     | 230/50     |
|                                                                                                                                                                      |         |                 |                             |            |                           |                   |                |                     | [V/Hz]      | [V/Hz]     | [V/Hz]     |
| With FKM seal and manual override                                                                                                                                    |         |                 |                             |            |                           |                   |                |                     |             |            |            |
| <b>CF C</b><br>3/2-way solenoid valve<br>Direct-acting<br>Normally closed<br><br> | BJ01    | G ⅛             | G ⅛                         | 1,5        | 75                        | 8                 | 0...16         | Brass               | 20098150 𐞀  | 389539 𐞀   | 389541 𐞀   |
|                                                                                                                                                                      | BJ01    | G ⅛             | G ⅛                         | 2,0        | 120                       | 8                 | 0...10         | Brass               | 20098151 𐞀  | 389545 𐞀   | 389547 𐞀   |
|                                                                                                                                                                      | BJ02    | G ¼             | G ¼                         | 1,5        | 75                        | 8                 | 0...16         | Brass               | 334869 𐞀    | 389542 𐞀   | 389543 𐞀   |
|                                                                                                                                                                      | BJ02    | G ¼             | G ¼                         | 2,0        | 120                       | 8                 | 0...10         | Brass               | 334870 𐞀    | 389548 𐞀   | 389550 𐞀   |
|                                                                                                                                                                      | BJ03    | NPT ¼           | G ⅝                         | 1,5        | 75                        | 8                 | 0...16         | Brass               | o. r.       | o. r.      | o. r.      |
|                                                                                                                                                                      | BJ03    | NPT ¼           | G ⅝                         | 2,0        | 120                       | 8                 | 0...10         | Brass               | o. r.       | o. r.      | o. r.      |
|                                                                                                                                                                      | BJ04    | NPT ¼           | G ¼                         | 1,5        | 75                        | 8                 | 0...16         | Brass               | o. r.       | o. r.      | o. r.      |
|                                                                                                                                                                      | BJ04    | NPT ¼           | G ¼                         | 2,0        | 120                       | 8                 | 0...10         | Brass               | o. r.       | o. r.      | o. r.      |
|                                                                                                                                                                      | BJ05    | G ¼             | G ⅝                         | 1,5        | 75                        | 8                 | 0...16         | Brass               | 20058931 𐞀  | o. r.      | o. r.      |
|                                                                                                                                                                      | BJ05    | G ¼             | G ⅝                         | 2,0        | 120                       | 8                 | 0...10         | Brass               | 20034151 𐞀  | o. r.      | o. r.      |
|                                                                                                                                                                      | BJ06    | G ⅝             | G ¼                         | 1,5        | 75                        | 8                 | 0...16         | Brass               | o. r.       | o. r.      | o. r.      |
|                                                                                                                                                                      | BJ06    | G ⅝             | G ¼                         | 2,0        | 120                       | 8                 | 0...10         | Brass               | o. r.       | 20051143 𐞀 | 20043155 𐞀 |
|                                                                                                                                                                      | BJ07    | NPT ⅙           | G ⅝                         | 1,5        | 75                        | 8                 | 0...16         | Brass               | o. r.       | o. r.      | o. r.      |
|                                                                                                                                                                      | BJ07    | NPT ⅙           | G ⅝                         | 2,0        | 120                       | 8                 | 0...10         | Brass               | o. r.       | o. r.      | o. r.      |

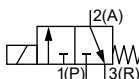
o. r. = on request

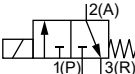
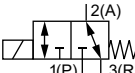


## ATEX/IECEx m cable variant

## Note:

The maximum medium temperature must never exceed the permitted temperature class (T4: +135 °C, T5: +100 °C, T6: +85 °C) minus 5 K.

| Circuit function                                                                                                                                                   | Port connection | Orifice | K <sub>v</sub> value water | Voltage/ frequency | Coil power | Pressure range | Body material | Article no. with manual override                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|----------------------------|--------------------|------------|----------------|---------------|--------------------------------------------------------------------------------------------|
|                                                                                                                                                                    |                 | [mm]    | [m³/h]                     | [V/Hz]             | [W]        | [bar]          |               |                                                                                            |
| Ex m II T4, with FKM seal and sub-base (SFB) connection with 3 m moulded cable, approved for block mounting, ambient temperature from - 10 °C... + 40 °C           |                 |         |                            |                    |            |                |               |                                                                                            |
| <b>CF C</b><br>3/2-way solenoid valve<br>Direct-acting<br>Normally closed<br><br> | Sub-base (SFB)  | 1.5     | 0.07                       | 024/UC             | 7          | 0...10         | PA            | 364568  |
|                                                                                                                                                                    |                 |         |                            | 230/UC             |            |                |               | 352017  |
|                                                                                                                                                                    |                 |         |                            | 024/UC             | 7          |                | Brass         | 351967  |
|                                                                                                                                                                    |                 |         |                            | 230/UC             |            |                |               | 364570  |
|                                                                                                                                                                    | Sub-base (SFB)  | 2.0     | 0.11                       | 024/UC             | 7          | 0...6          | Brass         | 351981  |
|                                                                                                                                                                    |                 |         |                            | 230/UC             |            |                |               | 351990  |

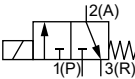
| Circuit function                                                                                                                                                     | Port connection                                                                                                                                                                                 | Orifice | K <sub>v</sub> value water | Voltage/ frequency | Coil power | Pressure range  | Body material                                                                                | Article no. without manual override                                                          | Article no. with manual override                                                             |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------------|--------------------|------------|-----------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-------|
|                                                                                                                                                                      |                                                                                                                                                                                                 | [mm]    | [m³/h]                     | [V/Hz]             | [W]        | [bar]           |                                                                                              |                                                                                              |                                                                                              |       |
| Ex m II T4, with FKM seal and threaded connection with 3 m moulded cable, approved for single mounting, ambient temperature from -10 °C...+55 °C                     |                                                                                                                                                                                                 |         |                            |                    |            |                 |                                                                                              |                                                                                              |                                                                                              |       |
| <b>CF C</b><br>3/2-way solenoid valve<br>Direct-acting<br>Normally closed<br><br> | G ⅛                                                                                                                                                                                             | 2.0     | 0.11                       | 024/UC             | 9          | 0...10          | Brass                                                                                        | 351966    | 351979    |       |
|                                                                                                                                                                      |                                                                                                                                                                                                 |         |                            | 230/UC             |            |                 |                                                                                              | 351982  | 352034  |       |
|                                                                                                                                                                      |                                                                                                                                                                                                 |         |                            | 024/UC             | 9          |                 | Stainless steel                                                                              | 351988  | o. r.                                                                                        |       |
|                                                                                                                                                                      |                                                                                                                                                                                                 |         |                            | 230/UC             |            |                 |                                                                                              | 352026  | o. r.                                                                                        |       |
|                                                                                                                                                                      | G ¼                                                                                                                                                                                             | 0.11    | 024/UC                     | 9                  | 0...10     | Brass           | 351969  | 351970  |                                                                                              |       |
|                                                                                                                                                                      |                                                                                                                                                                                                 |         | 230/UC                     |                    |            |                 | 351978  | 352006  |                                                                                              |       |
|                                                                                                                                                                      |                                                                                                                                                                                                 |         | 024/UC                     | 9                  |            | Stainless steel | 351963  | o. r.                                                                                        |                                                                                              |       |
|                                                                                                                                                                      |                                                                                                                                                                                                 |         | 230/UC                     |                    |            |                 | 352002  | o. r.                                                                                        |                                                                                              |       |
|                                                                                                                                                                      | G ⅛                                                                                                                                                                                             | 2.5     | 0.16                       | 024/UC             | 9          | 0...6           | Brass                                                                                        | o. r.                                                                                        | o. r.                                                                                        |       |
|                                                                                                                                                                      |                                                                                                                                                                                                 |         |                            | 230/UC             |            |                 |                                                                                              | o. r.                                                                                        | o. r.                                                                                        |       |
|                                                                                                                                                                      | G ¼                                                                                                                                                                                             |         | 0.16                       | 024/UC             | 9          | 0...6           | Brass                                                                                        | 351995  | 352000  |       |
|                                                                                                                                                                      |                                                                                                                                                                                                 |         |                            | 230/UC             |            |                 |                                                                                              | 364572  | o. r.                                                                                        |       |
|                                                                                                                                                                      | <b>CF T</b><br>3/2-way solenoid valve<br>Direct-acting<br>Flow direction optional<br>Normally closed<br><br> | G ⅛     | 1.5                        | 0.07               | 024/UC     | 9               | 0...7                                                                                        | Brass                                                                                        | 364573  | o. r. |
|                                                                                                                                                                      |                                                                                                                                                                                                 |         |                            |                    | 230/UC     |                 |                                                                                              |                                                                                              | o. r.                                                                                        | o. r. |
|                                                                                                                                                                      |                                                                                                                                                                                                 |         |                            |                    | 024/UC     | 9               |                                                                                              | Stainless steel                                                                              | 352009  | o. r. |
|                                                                                                                                                                      |                                                                                                                                                                                                 |         |                            |                    | 230/UC     |                 |                                                                                              |                                                                                              | 351989  | o. r. |
| G ¼                                                                                                                                                                  |                                                                                                                                                                                                 | 0.07    | 024/UC                     | 9                  | 0...7      | Brass           | o. r.                                                                                        | o. r.                                                                                        |                                                                                              |       |
|                                                                                                                                                                      |                                                                                                                                                                                                 |         | 230/UC                     |                    |            |                 | o. r.                                                                                        | o. r.                                                                                        |                                                                                              |       |
|                                                                                                                                                                      |                                                                                                                                                                                                 |         | 024/UC                     | 9                  |            | Stainless steel | 351994  | o. r.                                                                                        |                                                                                              |       |
|                                                                                                                                                                      |                                                                                                                                                                                                 |         | 230/UC                     |                    |            |                 | o. r.                                                                                        | o. r.                                                                                        |                                                                                              |       |

o. r. = on request

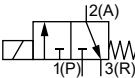
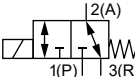
## ATEX/IECEx m terminal box variant

## Note:

The maximum medium temperature must never exceed the permitted temperature class (T4: +135 °C, T5: +100 °C, T6: +85 °C) minus 5 K.

| Circuit function                                                                                                                                                   | Port connection | Orifice | K <sub>v</sub> value water | Voltage/ frequency | Coil power | Pressure range | Body material | Article no. with manual override |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|----------------------------|--------------------|------------|----------------|---------------|----------------------------------|
|                                                                                                                                                                    |                 | [mm]    | [m³/h]                     | [V/Hz]             | [W]        | [bar]          |               |                                  |
| Ex m II T4, with FKM seal and sub-base (SFB), approved for block mounting, ambient temperature from - 10 °C...+ 40 °C                                              |                 |         |                            |                    |            |                |               |                                  |
| <b>CF C</b><br>3/2-way solenoid valve<br>Direct-acting<br>Normally closed<br><br> | Sub-base (SFB)  | 1.5     | 0.07                       | 024/UC             | 7          | 0...10         | PA            | 352062 ☞                         |
|                                                                                                                                                                    |                 |         |                            | 230/UC             |            |                |               | 364576 ☞                         |
|                                                                                                                                                                    |                 |         |                            | 024/UC             | 7          |                | Brass         | o. r.                            |
|                                                                                                                                                                    |                 |         |                            | 230/UC             |            |                |               | o. r.                            |
|                                                                                                                                                                    | Sub-base (SFB)  | 2.0     | 0.11                       | 024/UC             | 7          | 0...6          | Brass         | o. r.                            |
|                                                                                                                                                                    |                 |         |                            | 230/UC             |            |                |               | o. r.                            |

o. r. = on request

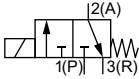
| Circuit function                                                                                                                                                     | Port connection                                                                                                                                                                                 | Orifice | K <sub>v</sub> value water | Voltage/ frequency | Coil power | Pressure range | Body material                                                                                | Article no. without manual override                                                          | Article no. with manual override                                                             |       |                                                                                              |                                                                                              |                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------------|--------------------|------------|----------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
|                                                                                                                                                                      |                                                                                                                                                                                                 | [mm]    | [m³/h]                     | [V/Hz]             | [W]        | [bar]          |                                                                                              |                                                                                              |                                                                                              |       |                                                                                              |                                                                                              |                                                                                              |
| Ex m II T4, with FKM seal and threaded connection, approved for single mounting, ambient temperature form -10 °C...+ 55 °C                                           |                                                                                                                                                                                                 |         |                            |                    |            |                |                                                                                              |                                                                                              |                                                                                              |       |                                                                                              |                                                                                              |                                                                                              |
| <b>CF C</b><br>3/2-way solenoid valve<br>Direct-acting<br>Normally closed<br><br> | G ⅛                                                                                                                                                                                             | 2.0     | 0.11                       | 024/UC             | 9          | 0...10         | Brass                                                                                        | 352001    | 351983    |       |                                                                                              |                                                                                              |                                                                                              |
|                                                                                                                                                                      |                                                                                                                                                                                                 |         |                            | 230/UC             |            |                | 352005   | 364614   |                                                                                              |       |                                                                                              |                                                                                              |                                                                                              |
|                                                                                                                                                                      |                                                                                                                                                                                                 |         |                            | 024/UC             | 9          |                | Stainless steel                                                                              | 351998  | o. r.                                                                                        |       |                                                                                              |                                                                                              |                                                                                              |
|                                                                                                                                                                      |                                                                                                                                                                                                 |         |                            | 230/UC             |            |                | 364581  | o. r.                                                                                        |                                                                                              |       |                                                                                              |                                                                                              |                                                                                              |
|                                                                                                                                                                      | G ¼                                                                                                                                                                                             |         | 0.11                       | 024/UC             | 9          | 0...10         | Brass                                                                                        | 351992  | 351980  |       |                                                                                              |                                                                                              |                                                                                              |
|                                                                                                                                                                      |                                                                                                                                                                                                 |         |                            | 230/UC             |            |                | 364587  | 352071  |                                                                                              |       |                                                                                              |                                                                                              |                                                                                              |
|                                                                                                                                                                      |                                                                                                                                                                                                 |         |                            | 024/UC             | 9          |                | Stainless steel                                                                              | 352067  | o. r.                                                                                        |       |                                                                                              |                                                                                              |                                                                                              |
|                                                                                                                                                                      |                                                                                                                                                                                                 |         |                            | 230/UC             |            |                | 352041  | o. r.                                                                                        |                                                                                              |       |                                                                                              |                                                                                              |                                                                                              |
|                                                                                                                                                                      | G ⅛                                                                                                                                                                                             | 2.5     | 0.16                       | 024/UC             | 9          | 0...6          | Brass                                                                                        | 364595  | o. r.                                                                                        |       |                                                                                              |                                                                                              |                                                                                              |
|                                                                                                                                                                      |                                                                                                                                                                                                 |         |                            | 230/UC             |            |                | 364598  | o. r.                                                                                        |                                                                                              |       |                                                                                              |                                                                                              |                                                                                              |
|                                                                                                                                                                      |                                                                                                                                                                                                 |         |                            | G ¼                |            |                | 0.16                                                                                         | 024/UC                                                                                       | 9                                                                                            | 0...6 | Brass                                                                                        | 364600  | 364615  |
|                                                                                                                                                                      |                                                                                                                                                                                                 |         |                            |                    |            |                |                                                                                              | 230/UC                                                                                       |                                                                                              |       | 364603  | 364618  |                                                                                              |
|                                                                                                                                                                      | <b>CF T</b><br>3/2-way solenoid valve<br>Direct-acting<br>Flow direction optional<br>Normally closed<br><br> | G ⅛     | 1.5                        | 0.07               | 024/UC     | 9              | 0...7                                                                                        | Brass                                                                                        | 364606  | o. r. |                                                                                              |                                                                                              |                                                                                              |
|                                                                                                                                                                      |                                                                                                                                                                                                 |         |                            |                    | 230/UC     |                |                                                                                              | o. r.                                                                                        | o. r.                                                                                        |       |                                                                                              |                                                                                              |                                                                                              |
|                                                                                                                                                                      |                                                                                                                                                                                                 |         |                            |                    | 024/UC     | 9              |                                                                                              | Stainless steel                                                                              | o. r.                                                                                        | o. r. |                                                                                              |                                                                                              |                                                                                              |
|                                                                                                                                                                      |                                                                                                                                                                                                 |         |                            |                    | 230/UC     |                |                                                                                              | o. r.                                                                                        | o. r.                                                                                        |       |                                                                                              |                                                                                              |                                                                                              |
| G ¼                                                                                                                                                                  |                                                                                                                                                                                                 |         | 0.07                       | 024/UC             | 9          | 0...7          | Brass                                                                                        | o. r.                                                                                        | o. r.                                                                                        |       |                                                                                              |                                                                                              |                                                                                              |
|                                                                                                                                                                      |                                                                                                                                                                                                 |         |                            | 230/UC             |            |                | o. r.                                                                                        | o. r.                                                                                        |                                                                                              |       |                                                                                              |                                                                                              |                                                                                              |
|                                                                                                                                                                      |                                                                                                                                                                                                 |         |                            | 024/UC             | 9          |                | Stainless steel                                                                              | 364610  | o. r.                                                                                        |       |                                                                                              |                                                                                              |                                                                                              |
|                                                                                                                                                                      |                                                                                                                                                                                                 |         |                            | 230/UC             |            |                | 364611  | o. r.                                                                                        |                                                                                              |       |                                                                                              |                                                                                              |                                                                                              |

o. r. = on request

## ATEX/IECEx ia variant

## Note:

The maximum medium temperature must never exceed the permitted temperature class (T4: +135 °C, T5: +100 °C, T6: +85 °C) minus 5 K.

| Circuit function                                                                                                                                                                         | Port connection        | Orifice<br>[mm] | Q <sub>Nn</sub> value air<br>[l/min] | Pressure range<br>[bar] | Body material   | Article no.                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------|--------------------------------------|-------------------------|-----------------|----------------------------------------------------------------------------------------------|
| <b>Ex ia II T6 with FKM seal only for approved single mounting, cable plug acc. to DIN EN 175 301 - 803 form A, ambient temperature from -10 °C...+60 °C for T6, -10...-75 °C for T5</b> |                        |                 |                                      |                         |                 |                                                                                              |
| <b>CF C</b><br>3/2-way solenoid valve<br>Direct-acting<br>Normally closed<br>                           | Bürkert sub-base (SFB) | 0.9             | 30                                   | Vac. to 10              | Stainless steel | 20003982  |
|                                                                                                                                                                                          | G 1/8                  |                 |                                      |                         |                 | 394532    |
|                                                                                                                                                                                          | Bürkert sub-base (SFB) |                 |                                      |                         | Brass           | 394531    |
|                                                                                                                                                                                          | G 1/8                  |                 |                                      |                         |                 | 394530    |

## Further variants on request

|                                                                                   |                                                                                                                  |                                                                                   |                                                                         |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------|
|  | <b>Additional</b><br>Orifice: 1.2 mm, 3.0 mm                                                                     |  | <b>Voltage</b><br>Non-standard voltages                                 |
|  | <b>Approval</b><br>Further information can be found in chapter <b>"3. Approvals and conformities"</b> on page 5. |  | <b>Material</b><br>Epoxy coil according to form A<br>Seal material EPDM |

## 9.5. Ordering chart accessories

## Single manifold

## Note:

Refer to chapter **"5.6. Single manifold"** on page 17 for more order information.

## Multiple manifold

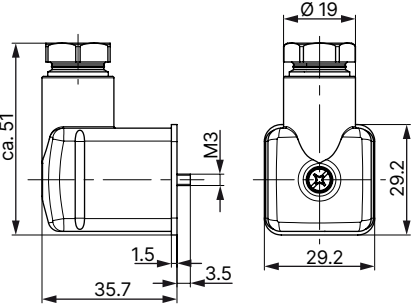
## Note:

Refer to chapter **"5.7. Multiple manifold"** on page 17 for more order information.

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

## Note:

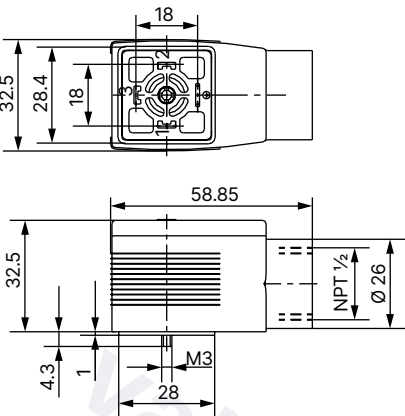
- Dimensions in mm
- For further variants see data sheet **Type 2518** 

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

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

**Note:**

- Dimensions in mm
- Without wiring (standard)
- The cable plug Type 2509 meets the requirements of ATEX Cat. 3 GD in assembly with a Bürkert solenoid valve.
- The cable plug Type 2509 meets the requirements of UL Listed (UL 429) in assembly with a Bürkert solenoid valve.
- Refer to data sheet **Type 2509** ▶ for more information about the cable plug.

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

Cable glands for ATEX/IECEX terminal box

**Note:**

- A polyamide cable gland is included in the scope of delivery. A nickel-plated brass variant can be ordered for a surcharge.
- Refer to **"8.1. Cable glands for ATEX/IECEX terminal box"** on page 20 for more information about Ex cable glands.
- Refer to **"8.2. Special tool to turn the terminal box"** on page 20 for more information about special tool.

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

1.) Cable diameter

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