



## Servo-assisted 2/2-way diaphragm valve

- Servo-assisted diaphragm valve up to DN65 orifice
- Separating diaphragm for aggressive and contaminated media
- Closing and opening times can be adjusted individually
- Explosion-proof versions (Cat.2)
- Service-friendly manual override

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

### Can be combined with

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

### Type description

The 5282 valve is a servo-assisted diaphragm valve. A minimum differential pressure is required for the valve to function. Various diaphragm material combinations and circuit functions are available depending on the application. The standard brass body satisfies all European drinking water requirements. The body offering is completed with stainless steel versions. The 3/2-way pilot valve can be easily converted from NC to NO circuit function by rotating it on the armature. The solenoid coils are moulded with a chemically resistant epoxy. The 5282 is equipped with manual override for start-up and testing. NEMA 4X is available on request.

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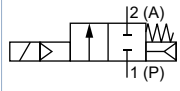
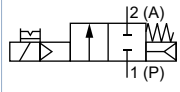
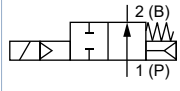
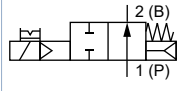
## 1. General technical data

| Product properties                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dimensions                                | Further information can be found in chapter "5. Dimensions" on page 7.                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Material</b>                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Seal                                      | NBR, EPDM, FKM                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Flange body                               | Stainless steel 1.4581/316CB                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Threaded body                             | Brass according to DIN EN 50930 – 6<br>DN 13 stainless steel CF3M<br>DN 20...DN 50 stainless steel 1.4581/316CB                                                                                                                                                                                                                                                                                                                                                  |
| Coil                                      | Epoxy                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Internal valve parts                      | Stainless steel, brass                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Orifice                                   | DN 13...DN 65                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Circuit function                          | A and B<br>Further information can be found in chapter "2. Circuit functions" on page 4.                                                                                                                                                                                                                                                                                                                                                                         |
| Thermal insulation class of solenoid coil | Epoxy coil class H                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Performance data                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Duty cycle                                | 100 % continuous operation                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Switching time <sup>1.)</sup>             | Opening: 0.1...0.8 s<br>Closing: 1.0...4.0 s                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Electrical data                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Operating voltage                         | 24 V DC, 24 V 56 Hz, 230 V 56 Hz, 24 V AC/DC, 230 V AC/DC                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Power consumption</b>                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Standard version                          | Inrush AC 30 VA<br>Operation AC 15/8 VA W<br>DC cold/hot 11/8 W                                                                                                                                                                                                                                                                                                                                                                                                  |
| Explosion-proof version                   | Inrush AC 40 VA<br>Operation AC 3 VA W<br>DC cold/hot 40 W inrush / 3 W operation                                                                                                                                                                                                                                                                                                                                                                                |
| Voltage tolerance                         | ± 10 %                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Medium data                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Operating medium</b>                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| With NBR                                  | Neutral media (e.g. compressed air, water, hydraulic oil)                                                                                                                                                                                                                                                                                                                                                                                                        |
| With EPDM                                 | Oil and grease-free media, alkalis, hot water                                                                                                                                                                                                                                                                                                                                                                                                                    |
| With FKM                                  | Hot air, per solutions, hot oils                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Medium temperature</b>                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| With NBR                                  | 0 °C...+ 80 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| With EPDM                                 | - 25 °C...+ 90 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| With FKM                                  | 0 °C...+ 90 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Process/Port connection & communication   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Electrical connection</b>              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Standard version                          | <ul style="list-style-type: none"> <li>Cable plug <b>Type 2518</b> ▶, form A according to DIN EN 175301 - 803<br/>Further information can be found in chapter "Cable plug Type 2518, form A according to DIN EN 175301 - 803" on page 18.</li> <li>Cable plug <b>Type 2509</b> ▶, form A according to DIN EN 175301 - 803<br/>Further information can be found in chapter "Cable plug Type 2509, form A according to DIN EN 175301 - 803" on page 18.</li> </ul> |
| Explosion-proof version                   | With moulded 3 meter cable, 3 × 0.5 mm <sup>2</sup><br>With terminal box                                                                                                                                                                                                                                                                                                                                                                                         |
| Approvals and conformities                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Directive                                 | CE, EAC                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Degree of protection                      | IP65 with cable plug according to DIN EN 175301 - 803 form A<br>IP65 with cable connection or terminal box                                                                                                                                                                                                                                                                                                                                                       |
| Explosion protection                      | Further information can be found in chapter "3.4. Explosion protection" on page 5.                                                                                                                                                                                                                                                                                                                                                                               |
| North America (USA/Canada)                | Further information can be found in chapter "3.5. North America (USA/Canada)" on page 5.                                                                                                                                                                                                                                                                                                                                                                         |
| Others                                    | Further information can be found in chapter "3.7. Others" on page 6.                                                                                                                                                                                                                                                                                                                                                                                             |

| Environment and installation |                                  |
|------------------------------|----------------------------------|
| Installation position        | Any, preferably actuator face up |
| Ambient temperature          | Max. + 55 °C                     |

1.) Measurement at + 20 °C, 6 bar at the valve outlet, opening: pressure build-up 0...90 %, closing: pressure reduction 100...10 %  
The switching time can be changed by turning the throttle screws (in the housing lid).

2.    **Circuit functions**

| Symbol                                                                             | Description                                                                                                             |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
|   | <b>Circuit function A (CF A)</b><br>2/2-way solenoid valve<br>Servo-controlled<br>Normally closed                       |
|   | <b>Circuit function A (CF A)</b><br>2/2-way solenoid valve<br>Servo-controlled, with manual override<br>Normally closed |
|   | <b>Circuit function B (CF B)</b><br>2/2-way solenoid valve<br>Servo-controlled<br>Normally open                         |
|  | <b>Circuit function B (CF B)</b><br>2/2-way solenoid valve<br>Servo-controlled, with manual override<br>Normally open   |

3.    **Approvals and conformities**

3.1.    **General notes**

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

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### 3.4. Explosion protection

| Approval                                                                                                                                                                             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                  |  |                         |                         |                                                                                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--|-------------------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>               | <b>Optional: Explosion protection according to category 2 (zone 1/21)</b> <p>Ex marking of the components according to the following table:</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                  |  |                         |                         |                                                                                                                                                                                      |
|                                                                                                                                                                                      | <table> <tr> <th colspan="2">Coil Type ACP016</th></tr> <tr> <th>Coils with cable outlet</th><th>Coils with terminal box</th></tr> <tr> <td> <b>ATEX:</b><br/>           EPS 16 ATEX 1 111 X<br/>           II 2 G Ex mb IIC T4 Gb<br/>           II 2 D Ex mb IIIC T130 °C Db<br/><br/> <b>IECEx:</b><br/>           IECEx EPS 16.0049X<br/>           Ex mb IIC T4 Gb<br/>           Ex mb IIIC T130 °C Db         </td><td> <b>ATEX:</b><br/>           PTB 15 ATEX 1011 U<br/>           II 2G Ex eb mb IIC T4 Gb<br/>           II 2D EX mb tb IIIC T130 °C<br/><br/> <b>IECEx:</b><br/>           IECEx PTB 15.0037 U<br/>           II eb mb IIC T4 Gb<br/>           II mb tb IIIC T130 °C Db         </td></tr> </table> | Coil Type ACP016 |  | Coils with cable outlet | Coils with terminal box | <b>ATEX:</b><br>EPS 16 ATEX 1 111 X<br>II 2 G Ex mb IIC T4 Gb<br>II 2 D Ex mb IIIC T130 °C Db<br><br><b>IECEx:</b><br>IECEx EPS 16.0049X<br>Ex mb IIC T4 Gb<br>Ex mb IIIC T130 °C Db |
| Coil Type ACP016                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                  |  |                         |                         |                                                                                                                                                                                      |
| Coils with cable outlet                                                                                                                                                              | Coils with terminal box                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                  |  |                         |                         |                                                                                                                                                                                      |
| <b>ATEX:</b><br>EPS 16 ATEX 1 111 X<br>II 2 G Ex mb IIC T4 Gb<br>II 2 D Ex mb IIIC T130 °C Db<br><br><b>IECEx:</b><br>IECEx EPS 16.0049X<br>Ex mb IIC T4 Gb<br>Ex mb IIIC T130 °C Db | <b>ATEX:</b><br>PTB 15 ATEX 1011 U<br>II 2G Ex eb mb IIC T4 Gb<br>II 2D EX mb tb IIIC T130 °C<br><br><b>IECEx:</b><br>IECEx PTB 15.0037 U<br>II eb mb IIC T4 Gb<br>II mb tb IIIC T130 °C Db                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                  |  |                         |                         |                                                                                                                                                                                      |

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

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

### 3.6. Drinking water

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

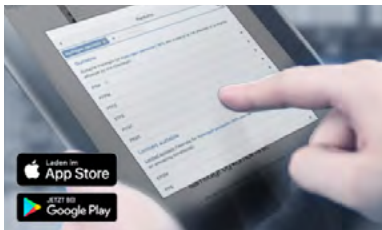
3.7. Others

DNV GL classification

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

4. Materials

4.1. Bürkert resistApp

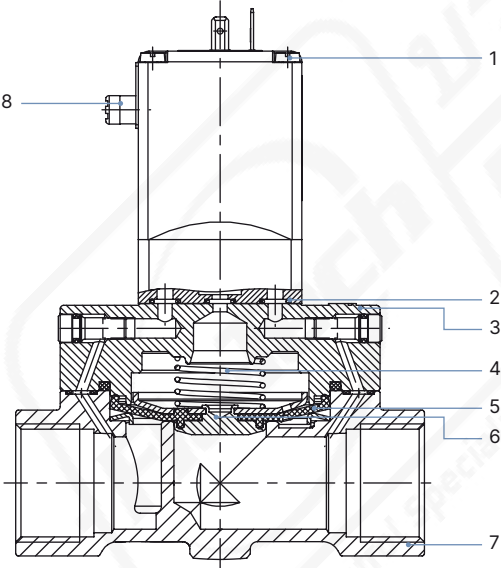


**Bürkert resistApp – Chemical resistance chart**

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

[Start chemical resistance check](#)

4.2. Material specifications



| No. | Element          | Material                                                                                |
|-----|------------------|-----------------------------------------------------------------------------------------|
| 1   | Coil             | Epoxy                                                                                   |
| 2   | O-rings          | NBR, EPDM, FKM                                                                          |
| 3   | Cover            | Brass<br>DN 13 stainless steel 1.4408/316<br>DN 20...DN 50 stainless steel 1.4581/316CB |
| 4   | Springs          | Stainless steel 1.4310/302                                                              |
| 5   | Diaphragm        | NBR, EPDM, FKM                                                                          |
| 6   | Diaphragm holder | Brass, stainless steel 1.4401 /316                                                      |
| 7   | Valve body       | Brass<br>DN 13 stainless steel CF3M<br>DN 20...DN 50 stainless steel 1.4581/316CB       |
| 8   | Manual override  | PA                                                                                      |

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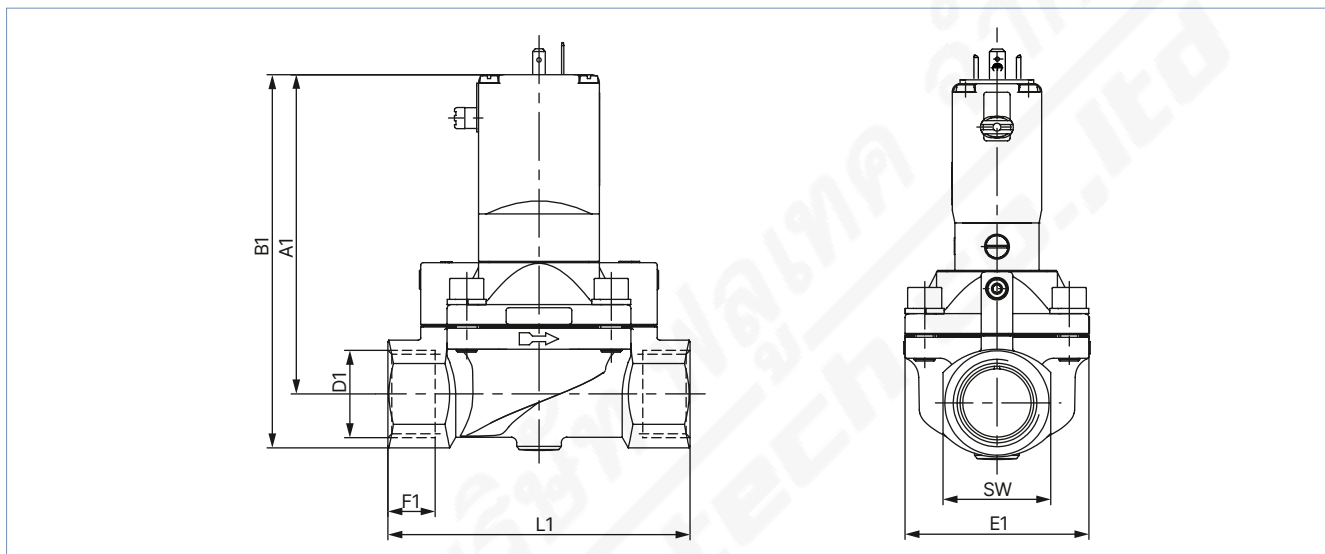
## 5. Dimensions

### 5.1. Standard version

#### Threaded version

##### Note:

- Dimensions in mm
- The dimensions D1 and F1 apply to G-threads.
- The dimensions D2 and F2 apply to NPT-threads.
- The dimensions D3 and F3 apply to Rc-threads.



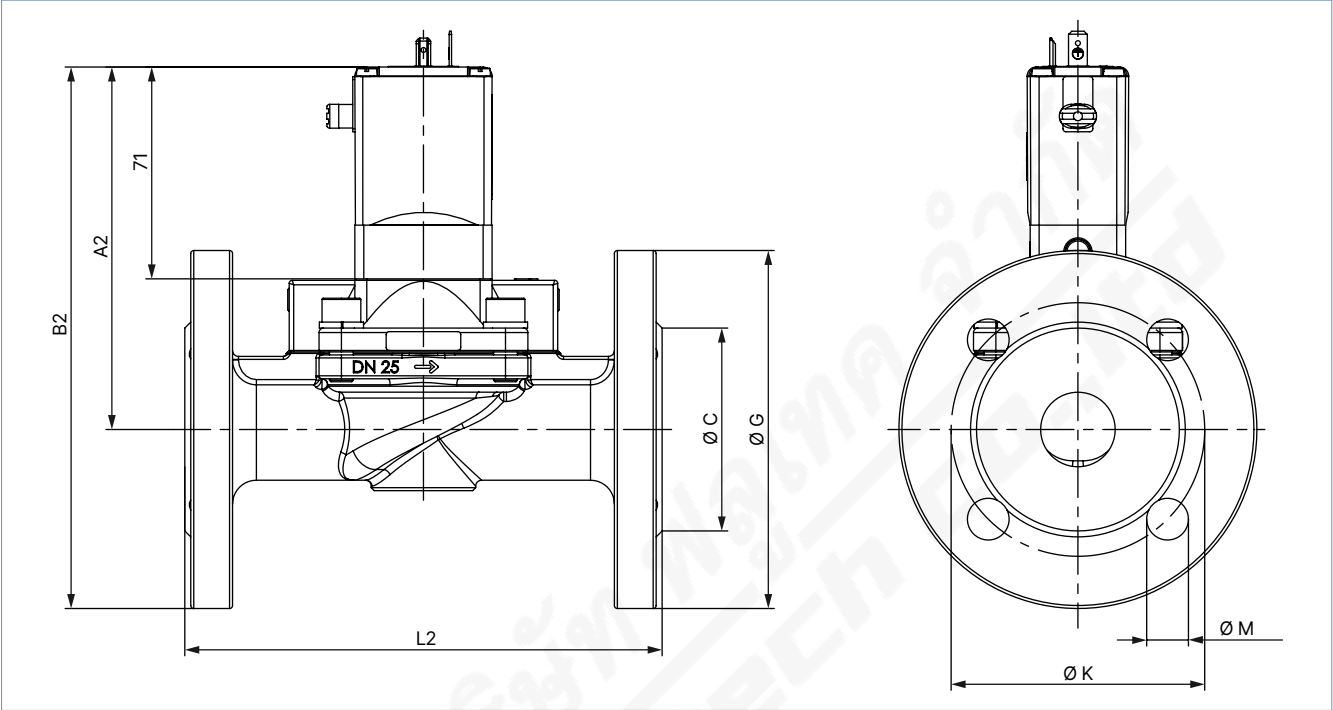
| DN                | A1    | B1    | G    |    | NPT    |      | Rc    |      | E1  | L1  | SW |
|-------------------|-------|-------|------|----|--------|------|-------|------|-----|-----|----|
|                   |       |       | D1   | F1 | D2     | F2   | D3    | F3   |     |     |    |
| 13 <sup>1.)</sup> | 109.0 | 123.0 | G ½  | 14 | NPT ½  | 13.7 | Rc ½  | 13.2 | 40  | 65  | 27 |
| 13 <sup>2.)</sup> | 108.0 | 124.0 | G ½  | 14 | NPT ½  | 13.7 | Rc ½  | 13.2 | 40  | 65  | 32 |
| 13 <sup>2.)</sup> | 108.0 | 124.0 | G ¾  | 16 | NPT ¾  | 14.0 | Rc ¾  | 14.5 | 40  | 65  | 32 |
| 20 <sup>2.)</sup> | 115.0 | 131.0 | G ½  | 14 | NPT ½  | 13.7 | Rc ½  | 13.2 | 60  | 100 | 32 |
| 20                | 115.0 | 131.0 | G ¾  | 16 | NPT ¾  | 14.0 | Rc ¾  | 14.5 | 60  | 100 | 32 |
| 25                | 121.5 | 142.0 | G 1  | 18 | NPT 1  | 16.8 | Rc 1  | 16.8 | 70  | 115 | 41 |
| 32                | 122.0 | 147.0 | G 1¼ | 20 | NPT 1¼ | 17.3 | Rc 1¼ | 19.1 | 85  | 126 | 50 |
| 40                | 126.0 | 156.0 | G 1½ | 22 | NPT 1½ | 17.3 | Rc 1½ | 19.1 | 85  | 126 | 60 |
| 50                | 142.5 | 177.5 | G 2  | 24 | NPT 2  | 17.6 | Rc 2  | 23.4 | 115 | 164 | 70 |
| 65                | 142.5 | 185.0 | G 2½ | 27 | NPT 2½ | 23.6 | –     | –    | 115 | 180 | 85 |

1.) Only threaded brass connection

2.) Only threaded stainless steel connection

Flange version according to DIN EN 1092 - 1

**Note:**  
Dimensions in mm



| Version                                        | DN | A2    | B2    | Ø C | Ø G | L2  | Ø M | Ø K |
|------------------------------------------------|----|-------|-------|-----|-----|-----|-----|-----|
| Brass with cast stainless steel body           | 25 | 121.5 | 181.5 | 68  | 120 | 160 | 14  | 85  |
|                                                | 32 | 122.0 | 192.0 | 78  | 140 | 180 | 18  | 100 |
|                                                | 40 | 128.0 | 203.0 | 88  | 150 | 200 | 18  | 110 |
|                                                | 50 | 142.8 | 225.3 | 102 | 165 | 230 | 18  | 125 |
| Stainless steel with cast stainless steel body | 25 | 120.5 | 180.5 | 68  | 120 | 160 | 14  | 85  |
|                                                | 32 | 122.0 | 192.0 | 78  | 140 | 180 | 18  | 100 |
|                                                | 40 | 128.0 | 203.0 | 88  | 150 | 200 | 18  | 110 |
|                                                | 50 | 142.8 | 225.3 | 102 | 165 | 230 | 18  | 125 |

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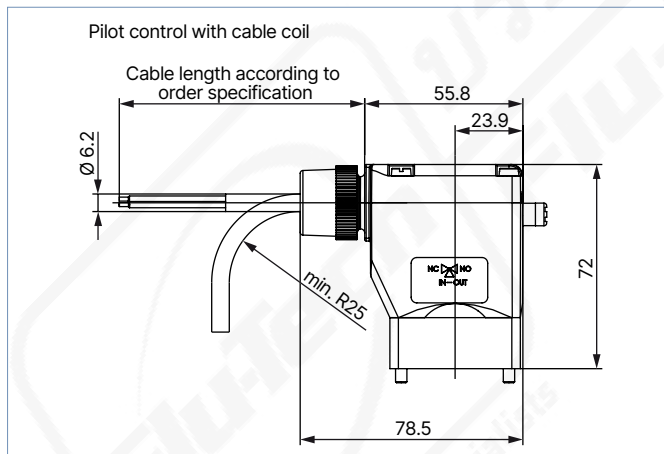
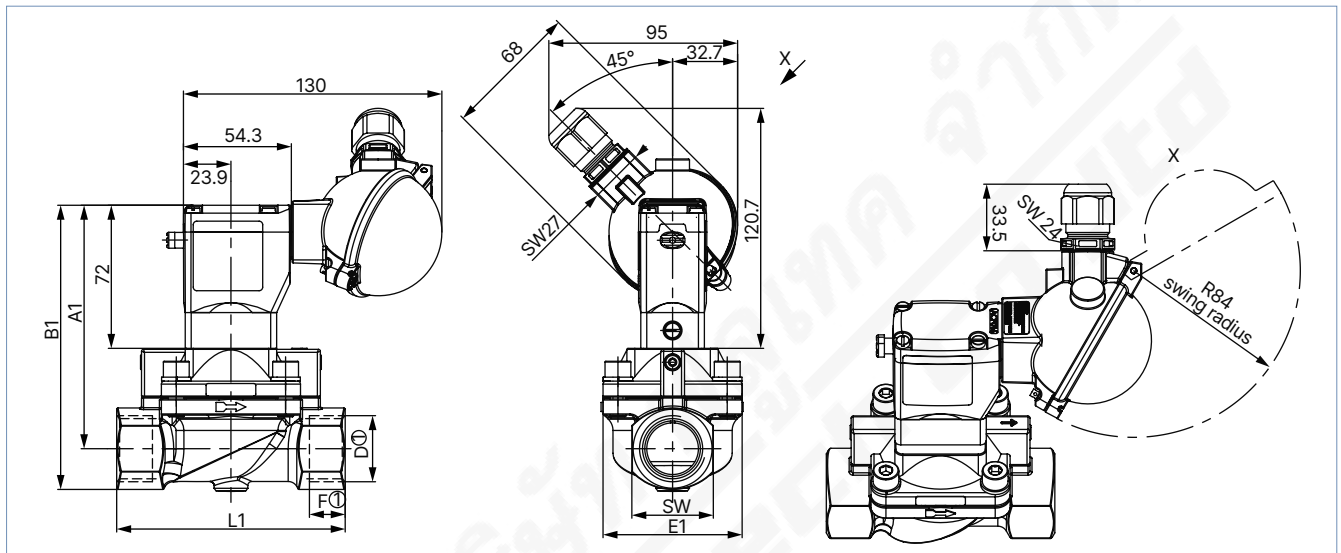


## 5.2. Explosion-proof version

### Threaded version

#### Note:

- Dimensions in mm
- The dimensions D1 and F1 apply to G-threads.
- The dimensions D2 and F2 apply to NPT-threads.
- The dimensions D3 and F3 apply to Rc-threads.



| DN                | A1    | B1    | G    |    | NPT    |      | Rc    |      | E1  | L1  | AF |
|-------------------|-------|-------|------|----|--------|------|-------|------|-----|-----|----|
|                   |       |       | D1   | F1 | D2     | F2   | D3    | F3   |     |     |    |
| 13 <sup>1.)</sup> | 110.0 | 124.0 | G ½  | 14 | NPT ½  | 13.7 | Rc ½  | 13.2 | 40  | 65  | 27 |
| 13 <sup>2.)</sup> | 109.0 | 125.0 | G ½  | 14 | NPT ½  | 13.7 | Rc ½  | 13.2 | 40  | 65  | 32 |
| 13 <sup>2.)</sup> | 109.0 | 125.0 | G ¾  | 16 | NPT ¾  | 14.0 | Rc ¾  | 14.5 | 40  | 65  | 32 |
| 20 <sup>2.)</sup> | 116.0 | 132.0 | G ½  | 14 | NPT ½  | 13.7 | Rc ½  | 13.2 | 60  | 100 | 32 |
| 20                | 116.0 | 132.0 | G ¾  | 16 | NPT ¾  | 14.0 | Rc ¾  | 14.5 | 60  | 100 | 32 |
| 25                | 122.5 | 143.0 | G 1  | 18 | NPT 1  | 16.8 | Rc 1  | 16.8 | 70  | 115 | 41 |
| 32                | 123.0 | 148.0 | G 1¼ | 20 | NPT 1¼ | 17.3 | Rc 1¼ | 19.1 | 85  | 126 | 50 |
| 40                | 127.0 | 157.0 | G 1½ | 22 | NPT 1½ | 17.3 | Rc 1½ | 19.1 | 85  | 126 | 60 |
| 50                | 143.8 | 178.8 | G 2  | 24 | NPT 2  | 17.6 | Rc 2  | 23.4 | 115 | 164 | 70 |
| 65                | 143.5 | 186.0 | G 2½ | 27 | NPT 2½ | 23.6 | –     | –    | 115 | 180 | 85 |

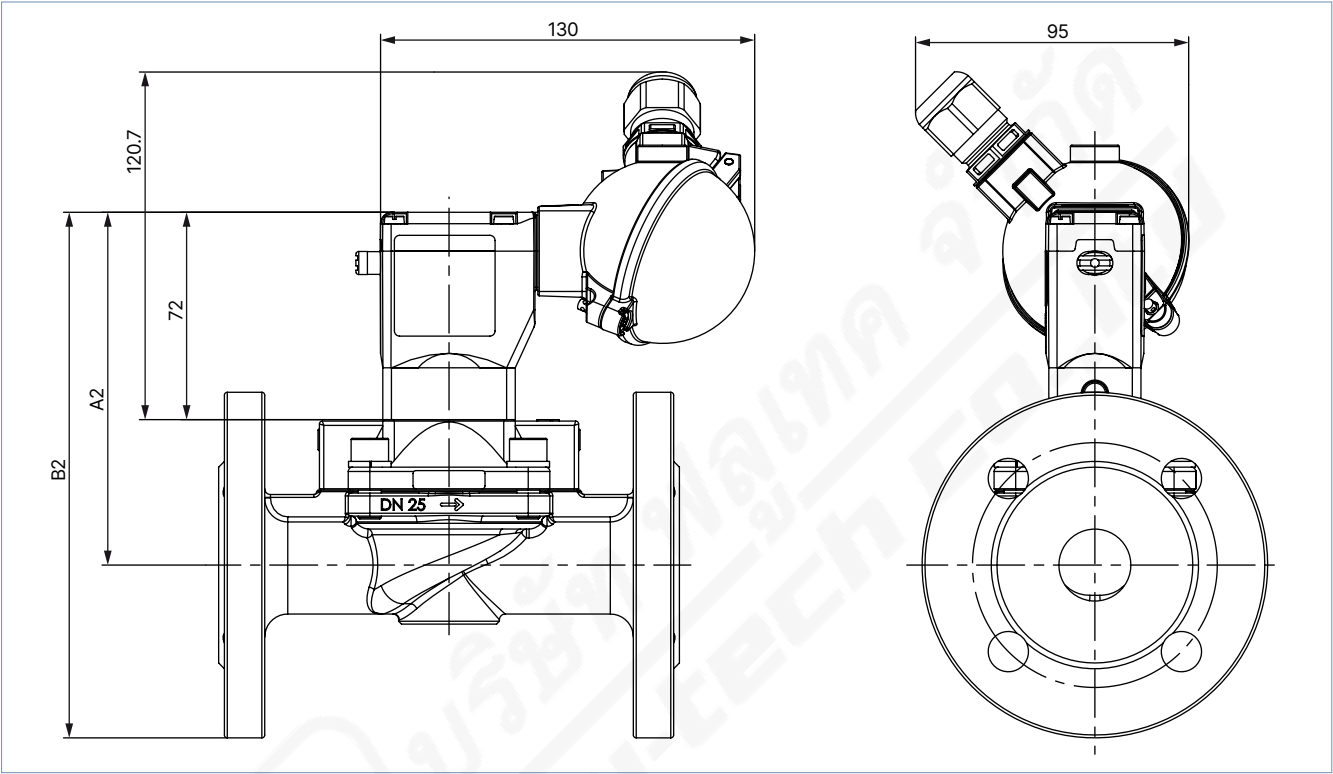
1.) Only threaded brass connection

2.) Only threaded stainless steel connection

Flange version according to DIN EN 1092 - 1

Note:

- Dimensions in mm
- Refer to **“Threaded version” on page 9** for more information about coil and terminal box dimensions.



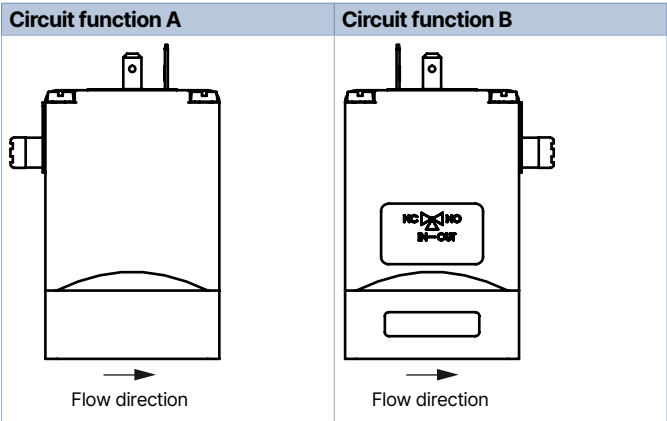
| Version                                              | DN | A2    | B2    | Ø C | Ø G | L2  | Ø M | Ø K |
|------------------------------------------------------|----|-------|-------|-----|-----|-----|-----|-----|
| Brass with<br>cast stainless steel<br>body           | 25 | 122.5 | 182.5 | 68  | 120 | 160 | 14  | 85  |
|                                                      | 32 | 123.0 | 193.0 | 78  | 140 | 180 | 18  | 100 |
|                                                      | 40 | 129.0 | 204.0 | 88  | 150 | 200 | 18  | 110 |
|                                                      | 50 | 143.8 | 226.3 | 102 | 165 | 230 | 18  | 125 |
| Stainless steel with<br>cast stainless steel<br>body | 25 | 121.5 | 181.5 | 68  | 120 | 160 | 14  | 85  |
|                                                      | 32 | 123.0 | 193.0 | 78  | 140 | 180 | 18  | 100 |
|                                                      | 40 | 129.0 | 204.0 | 88  | 150 | 200 | 18  | 110 |
|                                                      | 50 | 143.8 | 226.3 | 102 | 165 | 230 | 18  | 125 |

6. Product installation

6.1. Mounting options

Note:

- The delivery condition corresponds to the order key. Turning the pilot valve through 180° changes the circuit function of the valve.
- The circuit function can only be changed for versions up to 10 bar.

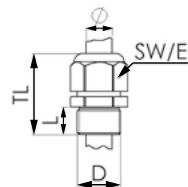
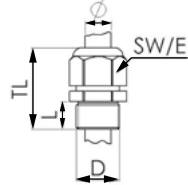


7. Product accessories

7.1. Cable glands for ATEX/IECEx terminal box

Note:

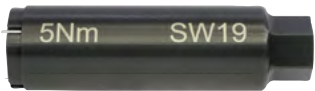
A polyamide cable gland is included in the scope of delivery. A nickel-plated brass version can be ordered for a surcharge, see "8.5. Ordering chart accessories" on page 18.

| Description                                                                                                                              | Ex approvals                              |                                                  | 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                                     |                                                  |                                                                                                                                                                                                                                                                                   |    |            |   |       |   |       |    |       |   |       |

## 7.2. Special tool to turn the terminal box

### Note:

This special tool is not included in the scope of delivery of the valve, see “8.5. Ordering chart accessories” on page 18.

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

## 8. Ordering information

### 8.1. Bürkert eShop

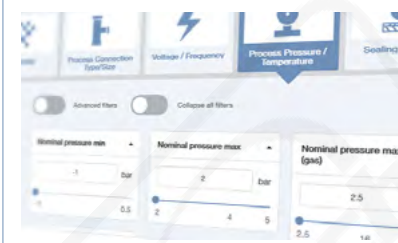


#### Bürkert eShop – Easy ordering and quick delivery

You want to find your desired Bürkert product or spare part quickly and order directly? Our online shop is available for you 24/7. Sign up and enjoy all the benefits.

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### 8.2. Bürkert product filter

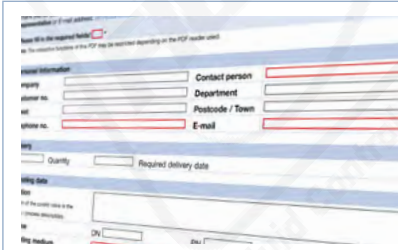


#### Bürkert product filter – Get quickly to the right product

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.

[Try out our product filter](#)

### 8.3. Bürkert Product Enquiry Form



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

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

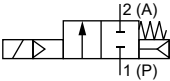
[Fill out the form now](#)

## 8.4. Ordering chart

### Basic version

#### Note:

Please note that the cable plug must be ordered separately, see "8.5. Ordering chart accessories" on page 18 or separate data sheet Type 2518 ▶.

| Circuit function                                                                                                                                                  | Port connection                                                                | Orifice | Flow coefficient water <sup>1)2)</sup> | Pressure range <sup>3)</sup> | Weight | Article no. |             |             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------|----------------------------------------|------------------------------|--------|-------------|-------------|-------------|
|                                                                                                                                                                   |                                                                                |         |                                        |                              |        | 024/DC      | 024/50...60 | 230/50...60 |
|                                                                                                                                                                   |                                                                                | [mm]    | [m³/h]                                 | [bar]                        | [kg]   | [V/Hz]      | [V/Hz]      | [V/Hz]      |
| With threaded connection without manual override, without adjustable opening and closing times, without cable plug                                                |                                                                                |         |                                        |                              |        |             |             |             |
| <b>CF A</b><br>2/2-way solenoid valve<br>Servo-controlled<br>Normally closed<br> | <b>Brass body and seal material NBR, pressure range 0.2...16 bar</b>           |         |                                        |                              |        |             |             |             |
|                                                                                                                                                                   | G ½                                                                            | 13.0    | 4.0                                    | 0.2...16                     | 0.95   | 20068749 𐤀  | o. r.       | 20068752 𐤀  |
|                                                                                                                                                                   | G ¾                                                                            | 20.0    | 6.5                                    | 0.2...16                     | 1.40   | 20068750 𐤀  | o. r.       | 20068753 𐤀  |
|                                                                                                                                                                   | G 1                                                                            | 25.0    | 10.0                                   | 0.2...16                     | 1.85   | 20068751 𐤀  | o. r.       | 20068754 𐤀  |
|                                                                                                                                                                   | G 1¼                                                                           | 32.0    | 20.0                                   | 0.2...16                     | 2.60   | o. r.       | o. r.       | o. r.       |
|                                                                                                                                                                   | G 1½                                                                           | 40.0    | 20.0                                   | 0.2...16                     | 3.05   | o. r.       | o. r.       | o. r.       |
|                                                                                                                                                                   | G 2                                                                            | 50.0    | 40.0                                   | 0.2...16                     | 5.15   | o. r.       | o. r.       | o. r.       |
|                                                                                                                                                                   | G 2½                                                                           | 65.0    | 40.0                                   | 0.2...16                     | 5.90   | o. r.       | o. r.       | o. r.       |
|                                                                                                                                                                   | <b>Stainless steel body and seal material FKM, pressure range 0.2...12 bar</b> |         |                                        |                              |        |             |             |             |
|                                                                                                                                                                   | G ½                                                                            | 13.0    | 4.0                                    | 0.2...12                     | 0.95   | 20068755 𐤀  | o. r.       | 20068758 𐤀  |
|                                                                                                                                                                   | G ¾                                                                            | 20.0    | 6.5                                    | 0.2...12                     | 1.40   | 20068756 𐤀  | o. r.       | 20068759 𐤀  |
|                                                                                                                                                                   | G 1                                                                            | 25.0    | 10.0                                   | 0.2...12                     | 1.85   | 20068757 𐤀  | o. r.       | 20068760 𐤀  |
|                                                                                                                                                                   | G 1¼                                                                           | 32.0    | 20.0                                   | 0.2...12                     | 2.60   | o. r.       | o. r.       | o. r.       |
|                                                                                                                                                                   | G 1½                                                                           | 40.0    | 20.0                                   | 0.2...12                     | 3.05   | o. r.       | o. r.       | o. r.       |
|                                                                                                                                                                   | G 2                                                                            | 50.0    | 40.0                                   | 0.2...12                     | 5.15   | o. r.       | o. r.       | o. r.       |
| G 2½                                                                                                                                                              | 65.0                                                                           | 40.0    | 0.2...12                               | 5.90                         | o. r.  | o. r.       | o. r.       |             |

o. r. = on request

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

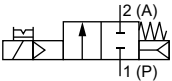
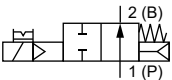
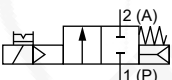
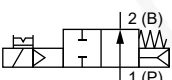
2.) A pressure difference of 0.5 bar is required to open the full cross-section.

3.) Pressure data: overpressure to atmospheric pressure

## Standard version with brass body

## Note:

Please note that the cable plug must be ordered separately, see "8.5. Ordering chart accessories" on page 18 or separate data sheet Type 2518 ▶.

| Circuit function                                                                                                                                                                             | Port connection                                                                                                                                                                           | Orifice                                        | Flow coefficient water <sup>1,2)</sup> | Pressure range <sup>3)</sup> | Weight   | Article no. |             |             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------|------------------------------|----------|-------------|-------------|-------------|
|                                                                                                                                                                                              |                                                                                                                                                                                           |                                                |                                        |                              |          | 024/DC      | 024/50...60 | 230/50...60 |
|                                                                                                                                                                                              |                                                                                                                                                                                           | [mm]                                           | [m³/h]                                 | [bar]                        | [kg]     | [V/Hz]      | [V/Hz]      | [V/Hz]      |
| With threaded connection and manual override, without cable plug                                                                                                                             |                                                                                                                                                                                           |                                                |                                        |                              |          |             |             |             |
| <b>CF A</b><br>2/2-way solenoid valve<br>Servo-controlled,<br>with manual override<br>Normally closed<br>   | Seal material NBR, pressure range 0.2...10 bar                                                                                                                                            |                                                |                                        |                              |          |             |             |             |
|                                                                                                                                                                                              | G ½                                                                                                                                                                                       | 13.0                                           | 4.0                                    | 0.2...10                     | 0.95     | 134430 ☹    | 134431 ☹    | 134433 ☹    |
|                                                                                                                                                                                              | G ¾                                                                                                                                                                                       | 20.0                                           | 6.5                                    | 0.2...10                     | 1.40     | 134434 ☹    | 134435 ☹    | 134437 ☹    |
|                                                                                                                                                                                              | G 1                                                                                                                                                                                       | 25.0                                           | 10.0                                   | 0.2...10                     | 1.85     | 134438 ☹    | 134439 ☹    | 134441 ☹    |
|                                                                                                                                                                                              | G 1¼                                                                                                                                                                                      | 32.0                                           | 20.0                                   | 0.2...10                     | 2.60     | 134442 ☹    | 134443 ☹    | 134445 ☹    |
|                                                                                                                                                                                              | G 1½                                                                                                                                                                                      | 40.0                                           | 20.0                                   | 0.2...10                     | 3.05     | 134446 ☹    | 134447 ☹    | 134449 ☹    |
|                                                                                                                                                                                              | G 2                                                                                                                                                                                       | 50.0                                           | 40.0                                   | 0.2...10                     | 5.15     | 134450 ☹    | 134451 ☹    | 134453 ☹    |
|                                                                                                                                                                                              | G 2½                                                                                                                                                                                      | 65.0                                           | 40.0                                   | 0.2...10                     | 5.90     | 134454 ☹    | 134455 ☹    | 134457 ☹    |
|                                                                                                                                                                                              | <b>CF B</b><br>2/2-way solenoid valve<br>Servo-controlled,<br>with manual override<br>Normally open<br> | Seal material FKM, pressure range 0.2...10 bar |                                        |                              |          |             |             |             |
| G ½                                                                                                                                                                                          |                                                                                                                                                                                           | 13.0                                           | 4.0                                    | 0.2...10                     | 0.95     | 134486 ☹    | 134487 ☹    | 134489 ☹    |
| G ¾                                                                                                                                                                                          |                                                                                                                                                                                           | 20.0                                           | 6.5                                    | 0.2...10                     | 1.40     | 134490 ☹    | 134491 ☹    | 134493 ☹    |
| G 1                                                                                                                                                                                          |                                                                                                                                                                                           | 25.0                                           | 10.0                                   | 0.2...10                     | 1.85     | 134494 ☹    | 134495 ☹    | 134497 ☹    |
| G 1¼                                                                                                                                                                                         |                                                                                                                                                                                           | 32.0                                           | 20.0                                   | 0.2...10                     | 2.60     | 134498 ☹    | 134499 ☹    | 134501 ☹    |
| G 1½                                                                                                                                                                                         |                                                                                                                                                                                           | 40.0                                           | 20.0                                   | 0.2...10                     | 3.05     | 134502 ☹    | 134503 ☹    | 134505 ☹    |
| G 2                                                                                                                                                                                          |                                                                                                                                                                                           | 50.0                                           | 40.0                                   | 0.2...10                     | 5.15     | 134506 ☹    | 134507 ☹    | 134509 ☹    |
| G 2½                                                                                                                                                                                         |                                                                                                                                                                                           | 65.0                                           | 40.0                                   | 0.2...10                     | 5.90     | 134510 ☹    | 134511 ☹    | 134513 ☹    |
| Seal material EPDM, pressure range 0.2...10 bar                                                                                                                                              |                                                                                                                                                                                           |                                                |                                        |                              |          |             |             |             |
| G ½                                                                                                                                                                                          | 13.0                                                                                                                                                                                      | 4.0                                            | 0.2...10                               | 0.95                         | 134458 ☹ | 134459 ☹    | 134461 ☹    |             |
| G ¾                                                                                                                                                                                          | 20.0                                                                                                                                                                                      | 6.5                                            | 0.2...10                               | 1.40                         | 134462 ☹ | 134463 ☹    | 134465 ☹    |             |
| G 1                                                                                                                                                                                          | 25.0                                                                                                                                                                                      | 10.0                                           | 0.2...10                               | 1.85                         | 134466 ☹ | 134467 ☹    | 134469 ☹    |             |
| G 1¼                                                                                                                                                                                         | 32.0                                                                                                                                                                                      | 20.0                                           | 0.2...10                               | 2.60                         | 134470 ☹ | 134471 ☹    | 134473 ☹    |             |
| G 1½                                                                                                                                                                                         | 40.0                                                                                                                                                                                      | 20.0                                           | 0.2...10                               | 3.05                         | 134474 ☹ | 134475 ☹    | 134477 ☹    |             |
| G 2                                                                                                                                                                                          | 50.0                                                                                                                                                                                      | 40.0                                           | 0.2...10                               | 5.15                         | 134478 ☹ | 134479 ☹    | 134481 ☹    |             |
| G 2½                                                                                                                                                                                         | 65.0                                                                                                                                                                                      | 40.0                                           | 0.2...10                               | 5.90                         | 134482 ☹ | 134483 ☹    | 134485 ☹    |             |
| <b>CF A</b><br>2/2-way solenoid valve<br>Servo-controlled,<br>with manual override<br>Normally closed<br> | Seal material NBR, pressure range 0.2...16 bar                                                                                                                                            |                                                |                                        |                              |          |             |             |             |
|                                                                                                                                                                                              | G ½                                                                                                                                                                                       | 13.0                                           | 4.0                                    | 0.2...16                     | 0.95     | 187421 ☹    | 254814 ☹    | 187422 ☹    |
|                                                                                                                                                                                              | G ¾                                                                                                                                                                                       | 20.0                                           | 6.5                                    | 0.2...16                     | 1.40     | 187423 ☹    | 237670 ☹    | 186719 ☹    |
|                                                                                                                                                                                              | G 1                                                                                                                                                                                       | 25.0                                           | 10.0                                   | 0.2...16                     | 1.85     | 202683 ☹    | 246449 ☹    | 183126 ☹    |
|                                                                                                                                                                                              | G 1¼                                                                                                                                                                                      | 32.0                                           | 20.0                                   | 0.2...16                     | 2.60     | 202684 ☹    | o. r.       | 202680 ☹    |
|                                                                                                                                                                                              | G 1½                                                                                                                                                                                      | 40.0                                           | 20.0                                   | 0.2...16                     | 3.05     | 202685 ☹    | 209365 ☹    | 202681 ☹    |
|                                                                                                                                                                                              | G 2                                                                                                                                                                                       | 50.0                                           | 40.0                                   | 0.2...16                     | 5.15     | 202686 ☹    | 318245 ☹    | 202682 ☹    |
| <b>CF B</b><br>2/2-way solenoid valve<br>Servo-controlled,<br>with manual override<br>Normally open<br>   | Seal material NBR, pressure range 0.2...16 bar                                                                                                                                            |                                                |                                        |                              |          |             |             |             |
|                                                                                                                                                                                              | G ½                                                                                                                                                                                       | 13.0                                           | 4.0                                    | 0.2...16                     | 0.95     | 184959 ☹    | 250917 ☹    | 184960 ☹    |
|                                                                                                                                                                                              | G ¾                                                                                                                                                                                       | 20.0                                           | 6.5                                    | 0.2...16                     | 1.40     | 189506 ☹    | o. r.       | 189342 ☹    |
|                                                                                                                                                                                              | G 1                                                                                                                                                                                       | 25.0                                           | 10.0                                   | 0.2...16                     | 1.85     | 183129 ☹    | 223653 ☹    | 183132 ☹    |
|                                                                                                                                                                                              | G 1¼                                                                                                                                                                                      | 32.0                                           | 20.0                                   | 0.2...16                     | 2.60     | 242280 ☹    | o. r.       | 242277 ☹    |
|                                                                                                                                                                                              | G 1½                                                                                                                                                                                      | 40.0                                           | 20.0                                   | 0.2...16                     | 3.05     | 207728 ☹    | o. r.       | 214331 ☹    |
|                                                                                                                                                                                              | G 2                                                                                                                                                                                       | 50.0                                           | 40.0                                   | 0.2...16                     | 5.15     | 242281 ☹    | o. r.       | 242278 ☹    |

o. r. = on request

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

2.) A pressure difference of 0.5 bar is required to open the full cross-section.

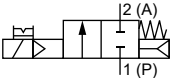
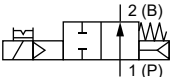
3.) Pressure data: overpressure to atmospheric pressure



## Standard version in brass with stainless steel flange body

## Note:

Please note that the cable plug must be ordered separately, see "8.5. Ordering chart accessories" on page 18 or separate data sheet Type 2518 ▶.

| Circuit function                                                                                      | Port connection                                | Orifice | K <sub>v</sub> value<br>water <sup>1)2.)</sup> | Pressure<br>range <sup>3.)</sup> | Weight | Article no. |             |
|-------------------------------------------------------------------------------------------------------|------------------------------------------------|---------|------------------------------------------------|----------------------------------|--------|-------------|-------------|
|                                                                                                       |                                                |         |                                                |                                  |        | 024/DC      | 230/50...60 |
|                                                                                                       |                                                | [mm]    | [m³/h]                                         | [bar]                            | [kg]   | [V/Hz]      | [V/Hz]      |
| With flange connection acc. to DIN EN 1092 - 1 and manual override, without cable plug                |                                                |         |                                                |                                  |        |             |             |
| <b>CF A</b><br>2/2-way solenoid valve<br>Servo-controlled,<br>with manual override<br>Normally closed | Seal material NBR, pressure range 0.2...10 bar |         |                                                |                                  |        |             |             |
|                      | Flange                                         | 25.0    | 10.0                                           | 0.2...10                         | 5.2    | 355263 ☞    | 355266 ☞    |
|                                                                                                       | Flange                                         | 32.0    | 20.0                                           | 0.2...10                         | 6.7    | 355269 ☞    | o. r.       |
|                                                                                                       | Flange                                         | 40.0    | 20.0                                           | 0.2...10                         | 7.4    | 355261 ☞    | 355265 ☞    |
|                                                                                                       | Flange                                         | 50.0    | 40.0                                           | 0.2...10                         | 11.5   | 355264 ☞    | 355259 ☞    |
| <b>CF B</b><br>2/2-way solenoid valve<br>Servo-controlled,<br>with manual override<br>Normally open   |                                                |         |                                                |                                  |        |             |             |
|                     |                                                |         |                                                |                                  |        |             |             |

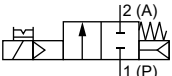
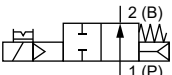
o. r. = on request

- 1.) Measurement at +20 °C, 1 bar<sup>2)</sup> at the valve inlet and free outlet
- 2.) A pressure difference of 0.5 bar is required to open the full cross-section.
- 3.) Pressure data: overpressure to atmospheric pressure

## Standard version with stainless steel body

## Note:

Please note that the cable plug must be ordered separately, see "8.5. Ordering chart accessories" on page 18 or separate data sheet Type 2518 ▶.

| Circuit function                                                                                                                                                                    | Port connection                                                                                 | Orifice | Flow coefficient water <sup>1,2,)</sup> | Pressure range <sup>3,)</sup> | Weight | Article no. |             |             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------|-----------------------------------------|-------------------------------|--------|-------------|-------------|-------------|
|                                                                                                                                                                                     |                                                                                                 |         |                                         |                               |        | 024/DC      | 024/50...60 | 230/50...60 |
|                                                                                                                                                                                     |                                                                                                 | [mm]    | [m³/h]                                  | [bar]                         | [kg]   | [V/Hz]      | [V/Hz]      | [V/Hz]      |
| With threaded or flange connection and manual override, without cable plug                                                                                                          |                                                                                                 |         |                                         |                               |        |             |             |             |
| CF A<br>2/2-way solenoid valve<br>Servo-controlled,<br>with manual override<br>Normally closed<br> | Threaded connection, seal material NBR, pressure range 0.2...10 bar                             |         |                                         |                               |        |             |             |             |
|                                                                                                                                                                                     | G ½                                                                                             | 13.0    | 4.0                                     | 0.2...10                      | 0.91   | 281976 ☒    | 281979 ☒    | 281981 ☒    |
|                                                                                                                                                                                     | G ¾                                                                                             | 20.0    | 6.5                                     | 0.2...10                      | 1.40   | 137142 ☒    | 137143 ☒    | 137145 ☒    |
|                                                                                                                                                                                     | G 1                                                                                             | 25.0    | 10.0                                    | 0.2...10                      | 1.80   | 137146 ☒    | 137147 ☒    | 137149 ☒    |
|                                                                                                                                                                                     | G 1¼                                                                                            | 32.0    | 20.0                                    | 0.2...10                      | 2.25   | 137150 ☒    | 137151 ☒    | 137153 ☒    |
|                                                                                                                                                                                     | G 1½                                                                                            | 40.0    | 20.0                                    | 0.2...10                      | 2.70   | 137154 ☒    | 137155 ☒    | 137157 ☒    |
|                                                                                                                                                                                     | G 2                                                                                             | 50.0    | 40.0                                    | 0.2...10                      | 4.80   | 137158 ☒    | 137159 ☒    | 137161 ☒    |
|                                                                                                                                                                                     | Threaded connection, seal material FKM, pressure range 0.2...10 bar                             |         |                                         |                               |        |             |             |             |
|                                                                                                                                                                                     | G ½                                                                                             | 13.0    | 4.0                                     | 0.2...10                      | 0.91   | 220291 ☒    | 220292 ☒    | 220294 ☒    |
|                                                                                                                                                                                     | G ¾                                                                                             | 20.0    | 6.5                                     | 0.2...10                      | 1.40   | 134518 ☒    | 134519 ☒    | 134521 ☒    |
|                                                                                                                                                                                     | G 1                                                                                             | 25.0    | 10.0                                    | 0.2...10                      | 1.80   | 134522 ☒    | 134523 ☒    | 134525 ☒    |
|                                                                                                                                                                                     | G 1¼                                                                                            | 32.0    | 20.0                                    | 0.2...10                      | 2.25   | 134526 ☒    | 134527 ☒    | 134529 ☒    |
|                                                                                                                                                                                     | G 1½                                                                                            | 40.0    | 20.0                                    | 0.2...10                      | 2.70   | 134530 ☒    | 134531 ☒    | 134533 ☒    |
|                                                                                                                                                                                     | G 2                                                                                             | 50.0    | 40.0                                    | 0.2...10                      | 4.80   | 134534 ☒    | 134535 ☒    | 134537 ☒    |
| CF B<br>2/2-way solenoid valve<br>Servo-controlled,<br>with manual override<br>Normally open<br>  | Threaded connection, seal material EPDM, pressure range 0.2...10 bar                            |         |                                         |                               |        |             |             |             |
|                                                                                                                                                                                     | G ½                                                                                             | 13.0    | 4.0                                     | 0.2...10                      | 0.91   | 220297 ☒    | 220298 ☒    | 220300 ☒    |
|                                                                                                                                                                                     | G ¾                                                                                             | 20.0    | 6.5                                     | 0.2...10                      | 1.40   | 145709 ☒    | o. r.       | 141714 ☒    |
|                                                                                                                                                                                     | G 1                                                                                             | 25.0    | 10.0                                    | 0.2...10                      | 1.80   | 141078 ☒    | 93909807 ☒  | 146160 ☒    |
|                                                                                                                                                                                     | G 1¼                                                                                            | 32.0    | 20.0                                    | 0.2...10                      | 2.25   | 438559 ☒    | o. r.       | 147803 ☒    |
|                                                                                                                                                                                     | G 1½                                                                                            | 40.0    | 20.0                                    | 0.2...10                      | 2.70   | 141667 ☒    | o. r.       | 139823 ☒    |
|                                                                                                                                                                                     | G 2                                                                                             | 50.0    | 40.0                                    | 0.2...10                      | 4.80   | 141075 ☒    | o. r.       | 146530 ☒    |
|                                                                                                                                                                                     | Flange connection according to DIN EN 1092 - 1, seal material FKM, pressure range 0.2...10 bar  |         |                                         |                               |        |             |             |             |
|                                                                                                                                                                                     | Flange                                                                                          | 25.0    | 10.0                                    | 0.2...10                      | 5.1    | 361400 ☒    | 361401 ☒    | 361403 ☒    |
|                                                                                                                                                                                     | Flange                                                                                          | 32.0    | 20.0                                    | 0.2...10                      | 6.45   | 361404 ☒    | 361405 ☒    | 361406 ☒    |
|                                                                                                                                                                                     | Flange                                                                                          | 40.0    | 20.0                                    | 0.2...10                      | 7.2    | 361407 ☒    | 361408 ☒    | 361409 ☒    |
|                                                                                                                                                                                     | Flange                                                                                          | 50.0    | 40.0                                    | 0.2...10                      | 11.3   | 361410 ☒    | 361411 ☒    | 361412 ☒    |
|                                                                                                                                                                                     | Flange connection according to DIN EN 1092 - 1, seal material EPDM, pressure range 0.2...10 bar |         |                                         |                               |        |             |             |             |
|                                                                                                                                                                                     | Flange                                                                                          | 25.0    | 10.0                                    | 0.2...10                      | 5.1    | 371943 ☒    | o. r.       | 368163 ☒    |
|                                                                                                                                                                                     | Flange                                                                                          | 32.0    | 20.0                                    | 0.2...10                      | 6.45   | o. r.       | o. r.       | 367561 ☒    |
|                                                                                                                                                                                     | Flange                                                                                          | 40.0    | 20.0                                    | 0.2...10                      | 7.2    | o. r.       | o. r.       | o. r.       |
|                                                                                                                                                                                     | Flange                                                                                          | 50.0    | 40.0                                    | 0.2...10                      | 11.3   | 361414 ☒    | o. r.       | 367562 ☒    |

o. r. = on request

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

2.) A pressure difference of 0.5 bar is required to open the full cross-section.

3.) Pressure data: overpressure to atmospheric pressure

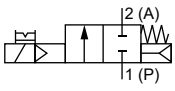
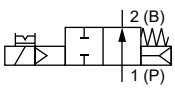
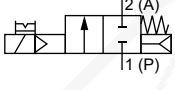
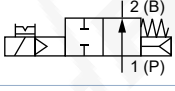
## Further versions on request

|                                                                                                                                                                                                                                                                                           |                                                                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
|  <b>Additional</b><br>With optical position indicator or electrical position feedback sensor as potential-free contact or Namur signal                                                                 |  <b>Pressure</b><br>Pressure range up to 16 bar |
|  <b>Approval</b><br>UL, UR, CSA, Hazardous Locations Expl. proof, Ex, KOSHA, NEPSI, CGA/AGA, FM Ex Div. 1 or 2, drinking water approval acc. to UBA assessment principles (PF36/PF39), impulse version |  <b>Voltage</b><br>Further voltages             |

## Explosion-proof version

## Note:

- Max. switching frequency 20/min at max. medium temperature 70 °C and max. ambient temperature 40 °C
- Max. switching frequency 5/min at max. medium temperature 90 °C and max. ambient temperature 55 °C

| Circuit function                                                                                                                                                                             | Port connection                                                         | Nominal diameter | Flow coefficient water <sup>1),2)</sup> | Pressure range <sup>3)</sup> | Weight | Article no. |             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------|-----------------------------------------|------------------------------|--------|-------------|-------------|
|                                                                                                                                                                                              |                                                                         | [mm]             | [m <sup>3</sup> /h]                     | [bar]                        | [kg]   | 024 / AC/DC | 230 / AC/DC |
|                                                                                                                                                                                              |                                                                         |                  |                                         |                              |        | [V/Hz]      | [V/Hz]      |
| <b>With manual override and terminal connection box</b>                                                                                                                                      |                                                                         |                  |                                         |                              |        |             |             |
| <b>CF A</b><br>2/2-way solenoid valve<br>Servo-controlled,<br>with manual override<br>Normally closed<br>   | <b>Brass body with threaded connection, seal material FKM</b>           |                  |                                         |                              |        |             |             |
|                                                                                                                                                                                              | G 1/2                                                                   | 13               | 4.0                                     | 0.5...10                     | 1.1    | 355080 ☒    | 355093 ☒    |
|                                                                                                                                                                                              | G 3/4                                                                   | 20               | 6.5                                     | 0.5...10                     | 1.5    | 355110 ☒    | 355098 ☒    |
|                                                                                                                                                                                              | G 1                                                                     | 25               | 10.0                                    | 0.5...10                     | 2.0    | 355096 ☒    | 355097 ☒    |
|                                                                                                                                                                                              | G 1 1/4                                                                 | 32               | 20.0                                    | 0.5...10                     | 2.7    | o. r.       | o. r.       |
|                                                                                                                                                                                              | G 1 1/2                                                                 | 40               | 20.0                                    | 0.5...10                     | 3.2    | 355118 ☒    | 355088 ☒    |
|                                                                                                                                                                                              | G 2                                                                     | 50               | 40.0                                    | 0.5...10                     | 5.3    | o. r.       | o. r.       |
| <b>CF B</b><br>2/2-way solenoid valve<br>Servo-controlled,<br>with manual override<br>Normally open<br>    | <b>Stainless steel body with threaded connection, seal material FKM</b> |                  |                                         |                              |        |             |             |
|                                                                                                                                                                                              | G 1/2                                                                   | 13               | 4.0                                     | 0.5...10                     | 1.0    | 355087 ☒    | 355103 ☒    |
|                                                                                                                                                                                              | G 1/2                                                                   | 20               | 5.0                                     | 0.5...10                     | 1.5    | 355081 ☒    | 355085 ☒    |
|                                                                                                                                                                                              | G 3/4                                                                   | 20               | 6.5                                     | 0.5...10                     | 1.5    | 355089 ☒    | 355092 ☒    |
|                                                                                                                                                                                              | G 1                                                                     | 25               | 10.0                                    | 0.5...10                     | 1.9    | 355084 ☒    | 355102 ☒    |
|                                                                                                                                                                                              | G 1 1/4                                                                 | 32               | 20.0                                    | 0.5...10                     | 2.4    | o. r.       | 355107 ☒    |
|                                                                                                                                                                                              | G 1 1/2                                                                 | 40               | 20.0                                    | 0.5...10                     | 2.8    | 370934 ☒    | 355111 ☒    |
|                                                                                                                                                                                              | G 2                                                                     | 50               | 40.0                                    | 0.5...10                     | 4.9    | o. r.       | o. r.       |
| <b>With manual override and cable outlet, cable 3 m</b>                                                                                                                                      |                                                                         |                  |                                         |                              |        |             |             |
| <b>CF A</b><br>2/2-way solenoid valve<br>Servo-controlled,<br>with manual override<br>Normally closed<br> | <b>Brass body with threaded connection, seal material NBR</b>           |                  |                                         |                              |        |             |             |
|                                                                                                                                                                                              | G 1/2                                                                   | 13               | 4.0                                     | 0.5...10                     | 1.0    | 349632 ☒    | 349634 ☒    |
|                                                                                                                                                                                              | G 3/4                                                                   | 20               | 6.5                                     | 0.5...10                     | 1.5    | 349647 ☒    | 349648 ☒    |
|                                                                                                                                                                                              | G 1                                                                     | 25               | 10.0                                    | 0.5...10                     | 1.9    | 349627 ☒    | 349637 ☒    |
|                                                                                                                                                                                              | G 1 1/4                                                                 | 32               | 20.0                                    | 0.5...10                     | 2.7    | 349644 ☒    | 349649 ☒    |
|                                                                                                                                                                                              | G 1 1/2                                                                 | 40               | 20.0                                    | 0.5...10                     | 3.1    | 349651 ☒    | 349652 ☒    |
|                                                                                                                                                                                              | G 2                                                                     | 50               | 40.0                                    | 0.5...10                     | 5.2    | 349635 ☒    | 349650 ☒    |
| <b>CF B</b><br>2/2-way solenoid valve<br>Servo-controlled,<br>with manual override<br>Normally open<br>   | G 2 1/2                                                                 | 65               | 40.0                                    | 0.5...10                     | 6.0    | 357536 ☒    | 349653 ☒    |

o. r. = on request

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

2.) A pressure difference of 0.5 bar is required to open the full cross-section.

3.) Pressure data: overpressure to atmospheric pressure

## Further versions on request

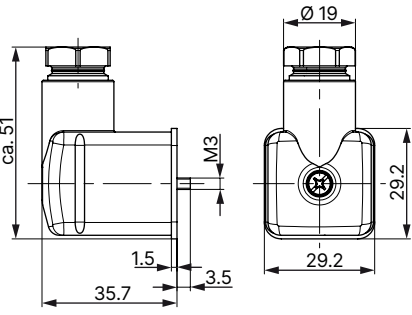
|                                                                                                                                      |                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
|  <b>Material</b><br>Seal material: NBR, FKM, EPDM |  <b>Pressure</b><br>Pressure range up to 16 bar |
|                                                                                                                                      |  <b>Voltage</b><br>110/UC                       |

### 8.5. Ordering chart accessories

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

**Note:**

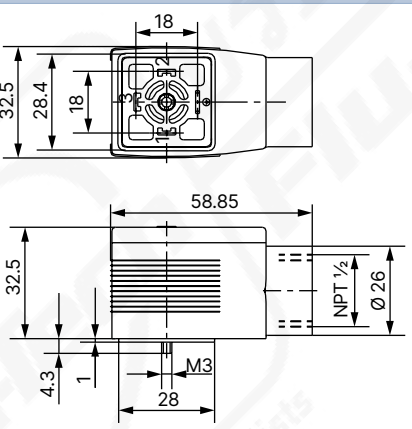
- Dimensions in mm
- For further versions see data sheet **Type 2518** ▶.

| Cable plug                                                                        | Dimensions                                                                        | Version                                                                                                | Voltage         | Article no. |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------|-------------|
|  |  | Without circuitry (AC/DC)                                                                              | 0...250 V AC/DC | 314802 𐀀    |
|                                                                                   |                                                                                   | With LED (AC/DC)                                                                                       | 12...24 V AC/DC | 314812 𐀀    |
|                                                                                   |                                                                                   | With LED and varistor (AC/DC)                                                                          | 12...24 V AC/DC | 314820 𐀀    |
|                                                                                   |                                                                                   | With rectifier, LED and varistor                                                                       | 12...24 V AC/DC | 314816 𐀀    |
|                                                                                   |                                                                                   | Without circuitry (AC/DC) with silicone seal for higher ambient temperature, e.g. steam version (NA07) | 0...250 V AC/DC | 361687 𐀀    |
|                                                                                   |                                                                                   |                                                                                                        |                 |             |

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

**Note:**

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

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

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

**Note:**

- A cable gland in polyamide version is included in the delivery. A nickel-plated brass version can be ordered at surcharge.
- Refer to **"7.1. Cable glands for ATEX/IECEx terminal box"** on page 11 for more information about Ex cable glands.
- Refer to **"7.2. Special tool to turn the terminal box"** on page 12 for more information about Ex cable glands.

| 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 wrench <sup>2)</sup> incl. service manual | 293488 𐀀    |

1.) Cable diameter

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