



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

- Servo-assisted piston valve with an orifice up to DN 50
- Explosion proof variant for Cat. 2
- Suitable for gas and steam applications up to + 180 °C
- Relief valves for compressors
- Energy-saving double coil technology with kick and drop variant

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

### Can be combined with



#### Type 2518

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



#### Type 2509

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

### Type description

The 5404 valve is a servo-assisted piston valve available in NC and NO variant. A minimum differential pressure is required for the valve switching function. The solenoid coils are moulded with high-quality epoxy resin. To reduce power consumption in operation, coils with "Kick and Drop" (KD) electronics assembly (double coil technology) are available. In combination with a plug to DIN EN 175301-803 Form A, the valves satisfy degree of protection IP65. The cable plug is not included and must be ordered separately.

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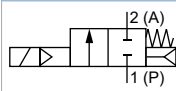
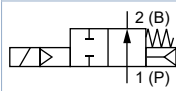
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## 1. General technical data

| Product properties                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dimensions                                                                      | Further information can be found in chapter <a href="#">“5. Dimensions” on page 11.</a>                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Material</b>                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Seal                                                                            | PTFE seat seal and FKM<br>PTFE seat seal and Graphite (steam variant)<br>PTFE seat seal and EPDM (on request)                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Body                                                                            | Brass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Coil                                                                            | Epoxy resin (polyamide on request)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Valve inner parts                                                               | Stainless steel, brass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Orifice                                                                         | DN 12...DN 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Circuit function                                                                | A and B<br>Further information can be found in chapter <a href="#">“2. Circuit functions” on page 5.</a>                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Thermal insulation class of solenoid coil                                       | Epoxy resin coil class H (class B on request)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Performance data                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Duty cycle                                                                      | 100 % continuous operation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Switching time</b>                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| DN 12...DN 25                                                                   | Opening: 20...400 ms<br>Closing: 100...1500 ms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| DN 32...DN 50                                                                   | Opening: 200...1500 ms<br>Closing: 1000...3000 ms                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Electrical data                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Operating voltage                                                               | 24 V DC, 24 V 50 Hz, 24 V 60 Hz, 110 V 50 Hz, 120 V 60 Hz, 230 V 50 Hz, 240 V 60 Hz (further voltages on request)                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Power consumption</b>                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Circuit function A, DN 12...DN 25 (not in combination with high pressure PN 08) | Inrush AC: 24 VA<br>Hold AC (warm coil): 14 VA/8 W<br>Hold DC (warm/cold coil): 8/9.5 W                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Circuit function B, DN 12...DN 25                                               | Inrush AC: 24 VA<br>Hold AC (warm coil): 14 VA/8 W<br>Hold DC (warm/cold coil): 8/9.5 W                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Explosion-proof variant                                                         | Inrush AC: 9 VA<br>Hold AC (warm coil): 9 VA<br>Hold DC (warm/cold coil): 9 W                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Circuit function A, DN 32...DN 50 and DN 12 as high pressure PN 08              | Inrush AC: 24 VA<br>Hold AC (warm coil): 16 VA/10 W<br>Hold DC (warm/cold coil): 12/13 W                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Voltage tolerance                                                               | ± 10 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Medium data                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Operating medium                                                                | Neutral gases and liquids (e.g. compressed air, water, hydraulic oil and steam)                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Medium temperature</b>                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Standard variant                                                                | - 10 °C...+ 120 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Steam variant                                                                   | Up to + 160 °C, see <a href="#">“6.1. Temperature/duty cycle derating diagram for steam variant NA07” on page 19</a><br>(from - 40 °C on request)<br>Up to + 180 °C for AC 6 Watt                                                                                                                                                                                                                                                                                                                                              |
| Viscosity                                                                       | Max. 21 mm <sup>2</sup> /s (21 cSt)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Product connections                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Electrical connection                                                           | <ul style="list-style-type: none"> <li>Plug contacts according to DIN EN 175 301 - 803 form A for cable plug <b>Type 2518</b> ►. Further information can be found in chapter <a href="#">“Cable plug Type 2518, form A according to DIN EN 175301 - 803” on page 25.</a></li> <li>Plug contacts according to DIN EN 175 301 - 803 form A for cable plug <b>Type 2509</b> ►. Further information can be found in chapter <a href="#">“Cable plug Type 2509, form A according to DIN EN 175301 - 803” on page 25.</a></li> </ul> |
| Port connection                                                                 | G ½, G ¾, G 1, G 1 ¼, G 1 ½, G 2<br>NPT ½, NPT ¾, NPT 1, NPT 1 ¼, NPT 1 ½, NPT 2                                                                                                                                                                                                                                                                                                                                                                                                                                               |

| Approvals and conformities             |                                                                                                                                                    |                              |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| Degree of protection                   | IP65 with cable plug <b>Type 2518</b> ▶ (IP67 on request)<br>NEMA 4X with cable plug <b>Type 2509</b> ▶ with stainless steel screws and epoxy coil |                              |
| Explosion protection                   | Further information can be found in chapter “ <b>3.4. Explosion protection</b> ” on page 6.                                                        |                              |
| North America (USA/Canada)             | Further information can be found in chapter “ <b>3.5. North America (USA/Canada)</b> ” on page 6.                                                  |                              |
| Others                                 | Further information can be found in chapter “ <b>3.6. Others</b> ” on page 7.                                                                      |                              |
| Environment and installation           |                                                                                                                                                    |                              |
| Installation position                  | As required, preferably with actuator upright                                                                                                      |                              |
| Ambient temperature                    |                                                                                                                                                    |                              |
| Standard variant                       | - 10 °C...+ 55 °C (- 40 °C on request)                                                                                                             |                              |
| <b>Variant with Kick and Drop coil</b> | <b>30 switching cycles/min</b>                                                                                                                     | <b>1 switching cycle/min</b> |
| 12/0.6 W                               | Max. + 70 °C                                                                                                                                       | Max. + 85 °C                 |
| 20/2.0 W                               | Max. + 70 °C                                                                                                                                       | Max. + 85 °C                 |
| 65/7.0 W                               | Max. + 55 °C                                                                                                                                       | Max. + 70 °C                 |

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 B (CF B)</b><br>2/2-way solenoid valve<br>Servo-controlled<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 verions can be supplied with the below mentioned approvals or conformities.

3.2. Conformity

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

3.3. Standards

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

### 3.4. Explosion protection

| Approval                                                                                                                                                               | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |  |                                                         |                         |                                                                                            |                                                                                                  |                                                                                  |                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--|---------------------------------------------------------|-------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| <br> | <p><b>Optional: Explosion protection according to category 2 (zone 1/21)</b></p> <p>Ex marking of the components according to the following table:</p> <table><tr><th colspan="2">Coil Type AC10</th></tr><tr><th>Coils with cable outlet</th><th>Coils with terminal box</th></tr><tr><td><b>ATEX:</b><br/>EPS 18 ATEX 1232 X<br/>II 2G Ex mb IIC T4 Gb<br/>II 2D Ex mb IIIC T130 °C Db</td><td><b>ATEX:</b><br/>EPS 18 ATEX 1232 X<br/>II 2G Ex eb mb IIC T4 Gb<br/>II 2D Ex mb tb IIIC T130 °C Db</td></tr><tr><td><b>IECEx:</b><br/>IECEx EPS 18.0110 X<br/>Ex mb IIC T4 Gb<br/>Ex mb IIIC T130 °C Db</td><td><b>IECEx:</b><br/>IECEx EPS 18.0110 X<br/>Ex eb mb IIC T4 Gb<br/>Ex mb tb IIIC T130 °C Db</td></tr></table> | Coil Type AC10 |  | Coils with cable outlet                                 | Coils with terminal box | <b>ATEX:</b><br>EPS 18 ATEX 1232 X<br>II 2G Ex mb IIC T4 Gb<br>II 2D Ex mb IIIC T130 °C Db | <b>ATEX:</b><br>EPS 18 ATEX 1232 X<br>II 2G Ex eb mb IIC T4 Gb<br>II 2D Ex mb tb IIIC T130 °C Db | <b>IECEx:</b><br>IECEx EPS 18.0110 X<br>Ex mb IIC T4 Gb<br>Ex mb IIIC T130 °C Db | <b>IECEx:</b><br>IECEx EPS 18.0110 X<br>Ex eb mb IIC T4 Gb<br>Ex mb tb IIIC T130 °C Db |
| Coil Type AC10                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |  |                                                         |                         |                                                                                            |                                                                                                  |                                                                                  |                                                                                        |
| Coils with cable outlet                                                                                                                                                | Coils with terminal box                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |  |                                                         |                         |                                                                                            |                                                                                                  |                                                                                  |                                                                                        |
| <b>ATEX:</b><br>EPS 18 ATEX 1232 X<br>II 2G Ex mb IIC T4 Gb<br>II 2D Ex mb IIIC T130 °C Db                                                                             | <b>ATEX:</b><br>EPS 18 ATEX 1232 X<br>II 2G Ex eb mb IIC T4 Gb<br>II 2D Ex mb tb IIIC T130 °C Db                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |  |                                                         |                         |                                                                                            |                                                                                                  |                                                                                  |                                                                                        |
| <b>IECEx:</b><br>IECEx EPS 18.0110 X<br>Ex mb IIC T4 Gb<br>Ex mb IIIC T130 °C Db                                                                                       | <b>IECEx:</b><br>IECEx EPS 18.0110 X<br>Ex eb mb IIC T4 Gb<br>Ex mb tb IIIC T130 °C Db                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |  |                                                         |                         |                                                                                            |                                                                                                  |                                                                                  |                                                                                        |
|                                                                                                                                                                        | <p><b>Optional: Explosion protection according to category 3 (zone 2/22)</b></p> <p>Ex marking of the components according to the following table:</p> <table><tr><th colspan="2">Coil Type AC10</th></tr><tr><th colspan="2">Coil with plug contacts form A and cable plug Type 2509</th></tr><tr><td colspan="2"><b>ATEX:</b><br/>EPS 18 ATEX 1232 X<br/>II 2G Ex mb IIC T4 Gb<br/>II 2D Ex mb IIIC T130 °C Db</td></tr><tr><td colspan="2"><b>IECEx:</b><br/>IECEx EPS 18.0110 X<br/>Ex mb IIC T4 Gb<br/>Ex mb IIIC T130 °C Db</td></tr></table>                                                                                                                                                                           | Coil Type AC10 |  | Coil with plug contacts form A and cable plug Type 2509 |                         | <b>ATEX:</b><br>EPS 18 ATEX 1232 X<br>II 2G Ex mb IIC T4 Gb<br>II 2D Ex mb IIIC T130 °C Db |                                                                                                  | <b>IECEx:</b><br>IECEx EPS 18.0110 X<br>Ex mb IIC T4 Gb<br>Ex mb IIIC T130 °C Db |                                                                                        |
| Coil Type AC10                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |  |                                                         |                         |                                                                                            |                                                                                                  |                                                                                  |                                                                                        |
| Coil with plug contacts form A and cable plug Type 2509                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |  |                                                         |                         |                                                                                            |                                                                                                  |                                                                                  |                                                                                        |
| <b>ATEX:</b><br>EPS 18 ATEX 1232 X<br>II 2G Ex mb IIC T4 Gb<br>II 2D Ex mb IIIC T130 °C Db                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |  |                                                         |                         |                                                                                            |                                                                                                  |                                                                                  |                                                                                        |
| <b>IECEx:</b><br>IECEx EPS 18.0110 X<br>Ex mb IIC T4 Gb<br>Ex mb IIIC T130 °C Db                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |  |                                                         |                         |                                                                                            |                                                                                                  |                                                                                  |                                                                                        |

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

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

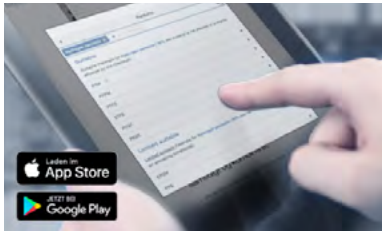
3.6. Others

Oxygen

| Conformity           | Description                                                                                                                                                                       |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>O<sub>2</sub></b> | <b>Optional: Suitability for oxygen (valid for the variable code NL02)</b><br>The products are suitable for use with gaseous oxygen, according to the manufacturer's declaration. |

4. Materials

4.1. Bürkert resistApp



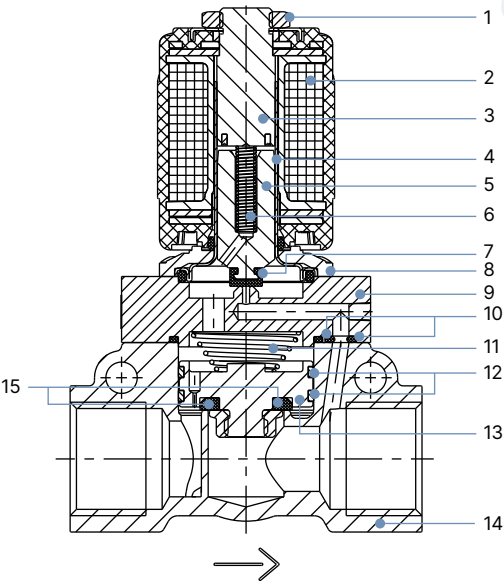
Bürkert resistApp – Chemical resistance chart

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

[Start chemical resistance check](#)

4.2. Material specifications standard variant

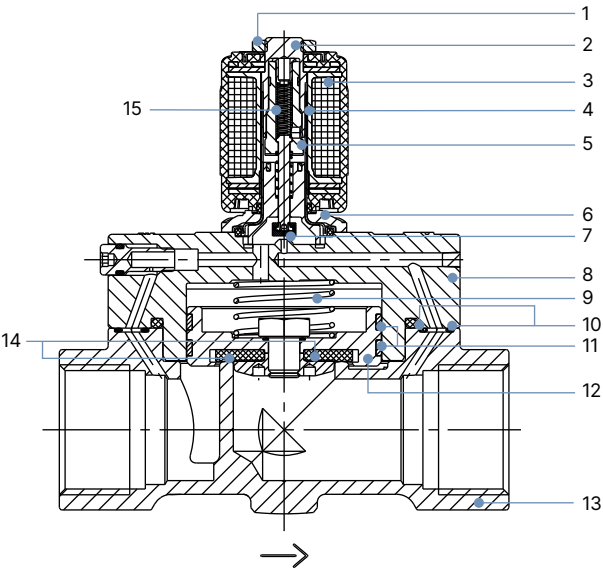
DN 12, circuit function A



| No. | Element             | Material                                                    |
|-----|---------------------|-------------------------------------------------------------|
| 1   | Nut                 | Steel (thick-film passivated according to RoHS)             |
| 2   | Coil                | Epoxy (polyamide optional)                                  |
| 3   | Stopper             | Stainless steel 1.4105/303 <sup>1)</sup>                    |
| 4   | Armature guide tube | Stainless steel 1.4303/305 <sup>1)</sup> /308 <sup>1)</sup> |
| 5   | Plunger             | Stainless steel 1.4105/430F <sup>1)</sup>                   |
| 6   | Spring              | Stainless steel 1.4310/301 <sup>1)</sup>                    |
| 7   | Plunger seal        | FKM (EPDM optional)                                         |
| 8   | Flange              | Steel (thick-film passivated according to RoHS)             |
| 9   | Cover               | Brass                                                       |
| 10  | O-ring              | FKM (EPDM optional)                                         |
| 11  | Spring              | Stainless steel 1.4310/301 <sup>1)</sup>                    |
| 12  | Piston ring         | PTFE                                                        |
| 13  | Piston              | Brass                                                       |
| 14  | Valve body          | Brass                                                       |
| 15  | Piston seal         | PTFE                                                        |

1.) Material designation according to AISI

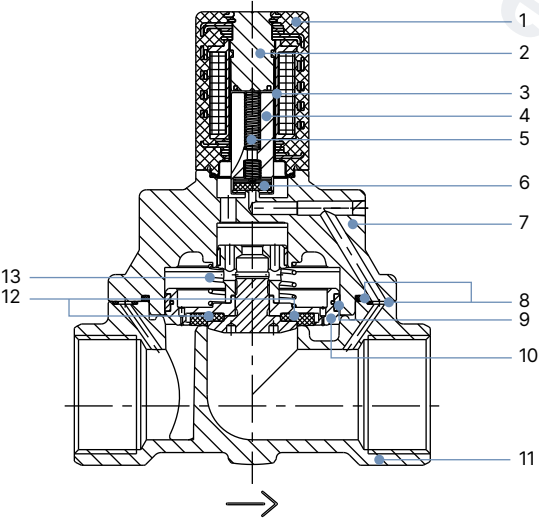
DN 25, circuit function B



| No. | Element             | Material                                                             |
|-----|---------------------|----------------------------------------------------------------------|
| 1   | Nut                 | Steel (thick-film passivated according to RoHS)                      |
| 2   | Stopper             | Stainless steel 1.4113/434 <sup>1.)</sup>                            |
| 3   | Coil                | Epoxy                                                                |
| 4   | Armature guide tube | Stainless steel 1.4303/305 <sup>1.)</sup> /308 <sup>1.)</sup>        |
| 5   | Plunger             | Stainless steel 1.4113/434 <sup>1.)</sup> /1.4305/303 <sup>1.)</sup> |
| 6   | Flange              | Steel (thick-film passivated according to RoHS)                      |
| 7   | Plunger seal        | FKM (EPDM optional)                                                  |
| 8   | Cover               | Brass                                                                |
| 9   | Spring              | Stainless steel 1.4310/301 <sup>1.)</sup>                            |
| 10  | O-ring              | FKM (EPDM optional)                                                  |
| 11  | Piston ring         | PTFE                                                                 |
| 12  | Piston              | Brass                                                                |
| 13  | Valve body          | Brass                                                                |
| 14  | Piston seal         | PTFE                                                                 |
| 15  | Spring              | Stainless steel 1.4310/301 <sup>1.)</sup>                            |

1.) Material designation according to AISI

DN 32, circuit function A



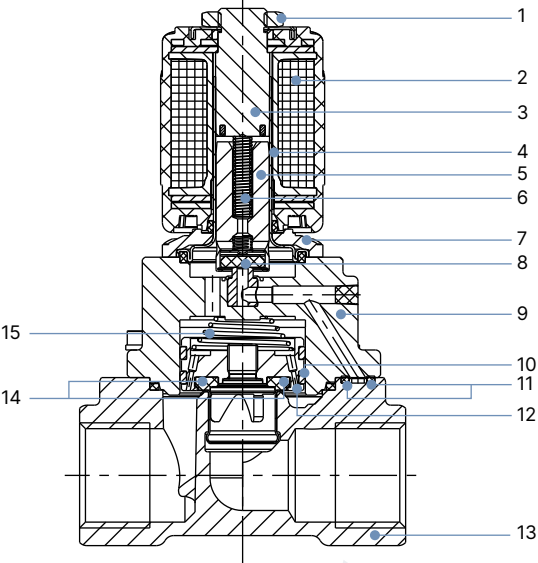
| No. | Element             | Material                                                      |
|-----|---------------------|---------------------------------------------------------------|
| 1   | Coil                | Epoxy                                                         |
| 2   | Stopper             | Stainless steel 1.4105/430F <sup>1.)</sup>                    |
| 3   | Armature guide tube | Stainless steel 1.4303/305 <sup>1.)</sup> /308 <sup>1.)</sup> |
| 4   | Plunger             | Stainless steel 1.4105/430F <sup>1.)</sup>                    |
| 5   | Spring              | Stainless steel 1.4310/301 <sup>1.)</sup>                     |
| 6   | Plunger seal        | FKM                                                           |
| 7   | Cover               | Brass                                                         |
| 8   | O-ring              | FKM                                                           |
| 9   | Piston ring         | PTFE                                                          |
| 10  | Piston              | Brass                                                         |
| 11  | Valve body          | Brass                                                         |
| 12  | Piston seal         | PTFE                                                          |
| 13  | Spring              | Stainless steel 1.4310/301 <sup>1.)</sup>                     |

1.) Material designation according to AISI



4.3. Material specifications steam variant NA07

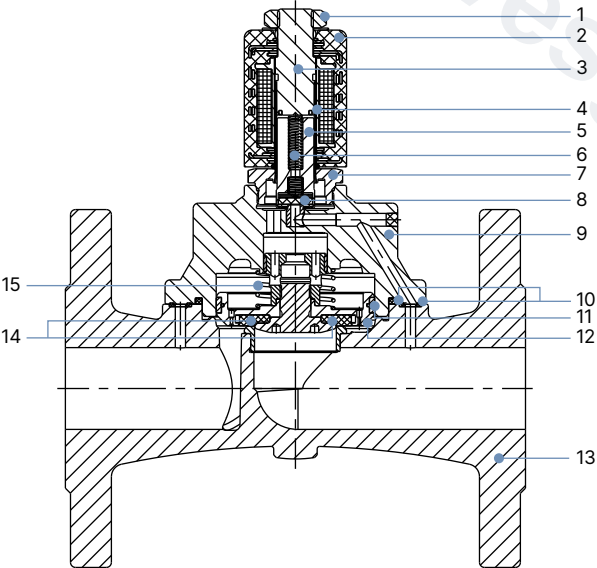
DN 13, circuit function A



| No. | Element             | Material                                        |
|-----|---------------------|-------------------------------------------------|
| 1   | Nut                 | Steel (thick-film passivated according to RoHS) |
| 2   | Coil                | Epoxy                                           |
| 3   | Stopper             | Stainless steel 1.4113/434 <sup>1.)</sup>       |
| 4   | Armature guide tube | Stainless steel 1.4303/305 <sup>1.)</sup>       |
| 5   | Plunger             | Stainless steel 1.4113/434 <sup>1.)</sup>       |
| 6   | Spring              | Stainless steel 1.4310/301 <sup>1.)</sup>       |
| 7   | Flange              | Steel (thick-film passivated according to RoHS) |
| 8   | Plunger seal        | PTFE                                            |
| 9   | Cover               | Brass                                           |
| 10  | Piston ring         | PTFE                                            |
| 11  | O-ring              | Graphite                                        |
| 12  | Piston              | Brass                                           |
| 13  | Valve body          | Brass                                           |
| 14  | Piston seal         | PTFE                                            |
| 15  | Spring              | Stainless steel 1.4310/301 <sup>1.)</sup>       |

1.) Material designation according to AISI

DN 32, circuit function A, flange body

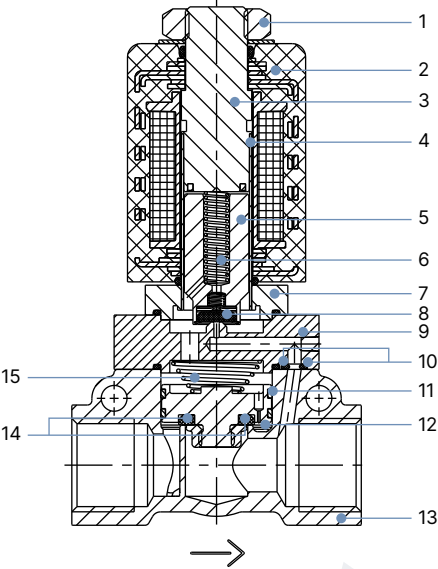


| No. | Element             | Material                                                                 |
|-----|---------------------|--------------------------------------------------------------------------|
| 1   | Nut                 | Steel (thick-film passivated according to RoHS)                          |
| 2   | Coil                | Epoxy                                                                    |
| 3   | Stopper             | Stainless steel 1.4113/434 <sup>1.)</sup>                                |
| 4   | Armature guide tube | Stainless steel 1.4571/316Ti <sup>1.)</sup>                              |
| 5   | Plunger             | Stainless steel 1.4113/434 <sup>1.)</sup>                                |
| 6   | Spring              | Stainless steel 1.4310/301 <sup>1.)</sup>                                |
| 7   | Threaded tube       | Stainless steel 1.4401/316 <sup>1.)</sup> or 1.4571/316Ti <sup>1.)</sup> |
| 8   | Plunger seal        | PTFE                                                                     |
| 9   | Cover               | Brass                                                                    |
| 10  | O-ring              | Graphite                                                                 |
| 11  | Piston ring         | PTFE                                                                     |
| 12  | Piston              | Brass                                                                    |
| 13  | Valve body          | Stainless steel 1.4581/similar 316Ti <sup>1.)</sup>                      |
| 14  | Piston seal         | PTFE                                                                     |
| 15  | Spring              | Stainless steel 1.4310/301 <sup>1.)</sup>                                |

1.) Material designation according to AISI

4.4. Material specifications high pressure variant PN 08

DN 12, circuit function A

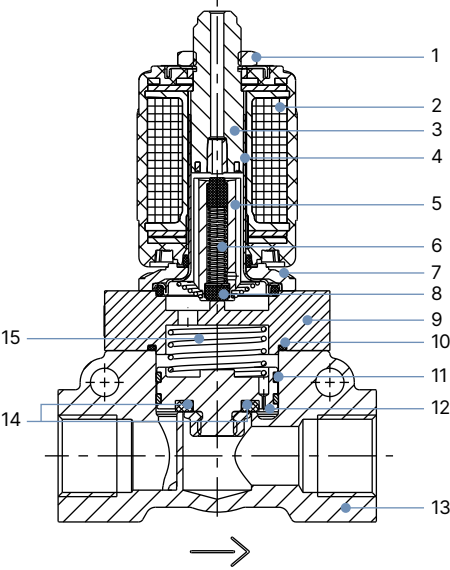


| No. | Element             | Material                                        |
|-----|---------------------|-------------------------------------------------|
| 1   | Nut                 | Steel (thick-film passivated according to RoHS) |
| 2   | Coil                | Epoxy (polyamide)                               |
| 3   | Stopper             | Stainless steel 1.4113/434 <sup>1)</sup>        |
| 4   | Armature guide tube | Stainless steel 1.4571/316Ti <sup>1)</sup>      |
| 5   | Plunger             | Stainless steel 1.4113/434 <sup>1)</sup>        |
| 6   | Spring              | Stainless steel 1.4310/301 <sup>1)</sup>        |
| 7   | Flange              | Stainless steel 1.4401/316 <sup>1)</sup>        |
| 8   | Plunger seal        | PTFE                                            |
| 9   | Cover               | Brass                                           |
| 10  | O-ring              | FKM                                             |
| 11  | Piston ring         | PTFE                                            |
| 12  | Piston              | Brass                                           |
| 13  | Valve body          | Brass                                           |
| 14  | Piston seal         | PTFE                                            |
| 15  | Spring              | Stainless steel 1.4310/301 <sup>1)</sup>        |

1.) Material designation according to AISI

4.5. Material specifications discharge valve for compressor systems CF05

DN 12, circuit function B



| No. | Element             | Material                                        |
|-----|---------------------|-------------------------------------------------|
| 1   | Nut                 | Steel (thick-film passivated according to RoHS) |
| 2   | Coil                | Epoxy (polyamide optional)                      |
| 3   | Stopper             | Stainless steel 1.4105/430F <sup>1)</sup>       |
| 4   | Armature guide tube | Stainless steel 1.4303/305 <sup>1)</sup>        |
| 5   | Plunger             | Stainless steel 1.4105/430F <sup>1)</sup>       |
| 6   | Spring              | Stainless steel 1.4310/301 <sup>1)</sup>        |
| 7   | Flange              | Steel (thick-film passivated according to RoHS) |
| 8   | Plunger seal        | FKM                                             |
| 9   | Cover               | Brass                                           |
| 10  | O-ring              | FKM                                             |
| 11  | Piston ring         | PTFE                                            |
| 12  | Piston              | Brass                                           |
| 13  | Valve body          | Brass                                           |
| 14  | Piston seal         | PTFE                                            |
| 15  | Spring              | Stainless steel 1.4310/301 <sup>1)</sup>        |

1.) Material designation according to AISI

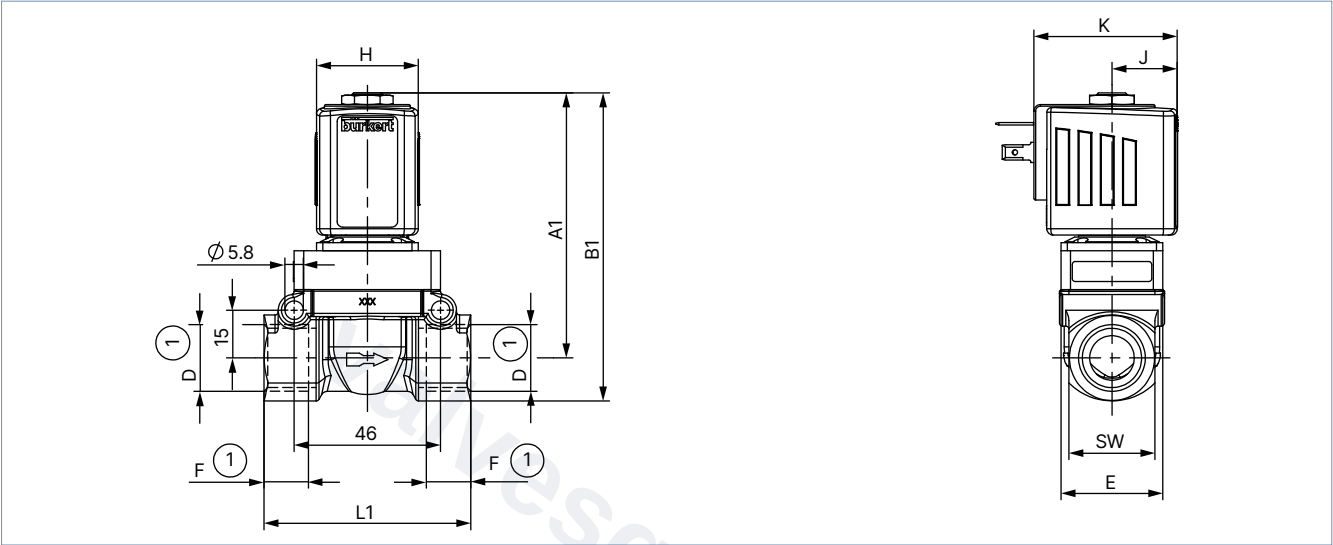
5. Dimensions

5.1. Standard variant

Threaded variant DN 12

Note:

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



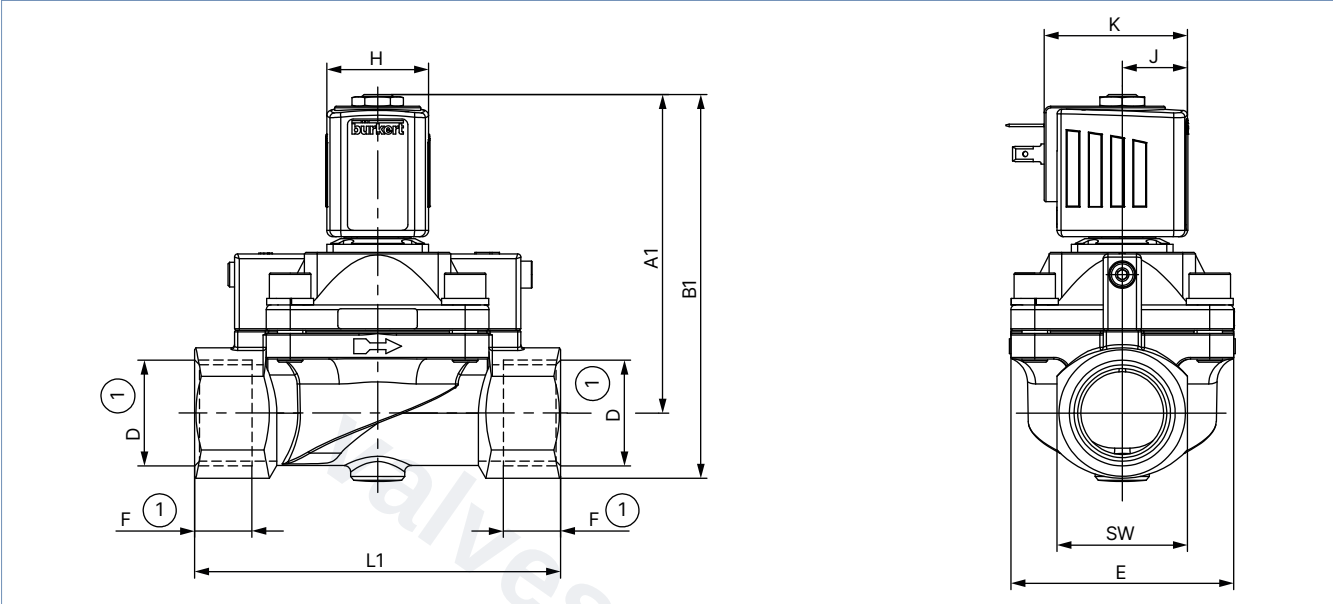
| Coil size | DN   | CF A |      | CF B |     | G thread |    | NPT thread |      | Rc thread |      | E  | L1 | SW | H  | J    | K  |
|-----------|------|------|------|------|-----|----------|----|------------|------|-----------|------|----|----|----|----|------|----|
|           |      | A1   | B1   | A1   | B1  | D1       | F1 | D2         | F2   | D3        | F3   |    |    |    |    |      |    |
| 5         | 12.0 | 83   | 96.5 | 90.5 | 104 | G ½      | 14 | NPT ½      | 13.7 | Rc ½      | 13.2 | 33 | 65 | 27 | 32 | 20.5 | 45 |
| 6         | 12.0 | 83   | 96.5 | 90.5 | 104 | G ½      | 14 | NPT ½      | 13.7 | Rc ½      | 13.2 | 33 | 65 | 27 | 40 | 23.5 | 51 |

DTS 1000011017 EN Version: AE Status: RL (released | freigegeben | valide) printed: 15.01.2026

Threaded variant DN 20 and DN 25

Note:

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

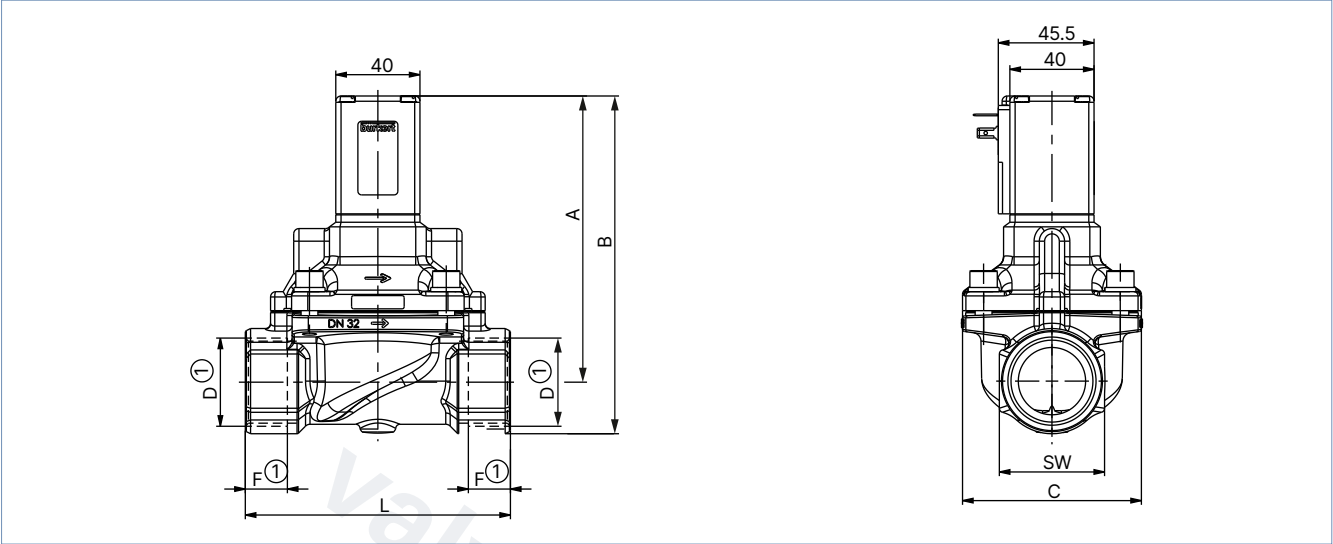


| Coil size | DN   | CF A |     | CF B |     | G thread |    | NPT thread |      | Rc thread |      | E  | L1  | SW | H  | J    | K  |
|-----------|------|------|-----|------|-----|----------|----|------------|------|-----------|------|----|-----|----|----|------|----|
|           |      | A1   | B1  | A1   | B1  | D1       | F1 | D2         | F2   | D3        | F3   |    |     |    |    |      |    |
| 5         | 20.0 | 93   | 109 | 90.5 | 104 | G ¾      | 16 | NPT ¾      | 14   | Rc ¾      | 14.5 | 60 | 100 | 32 | 32 | 20.5 | 45 |
|           | 25.0 | 99.5 | 119 |      |     | G 1      | 18 | NPT 1      | 16.8 | Rc 1      | 16.8 | 70 | 115 | 41 |    |      |    |
| 6         | 20.0 | 93   | 109 | 90.5 | 104 | G ¾      | 16 | NPT ¾      | 14   | Rc ¾      | 14.5 | 60 | 100 | 32 | 40 | 23.5 | 51 |
|           | 25.0 | 99.5 | 119 |      |     | G 1      | 18 | NPT 1      | 16.8 | Rc 1      | 16.8 | 70 | 115 | 41 |    |      |    |

Threaded variant DN 32 and DN 50

Note:

- Dimensions in mm
- The dimensions D1 and F1 apply to G thread.
- The dimensions D2 and F2 apply to NPT thread.



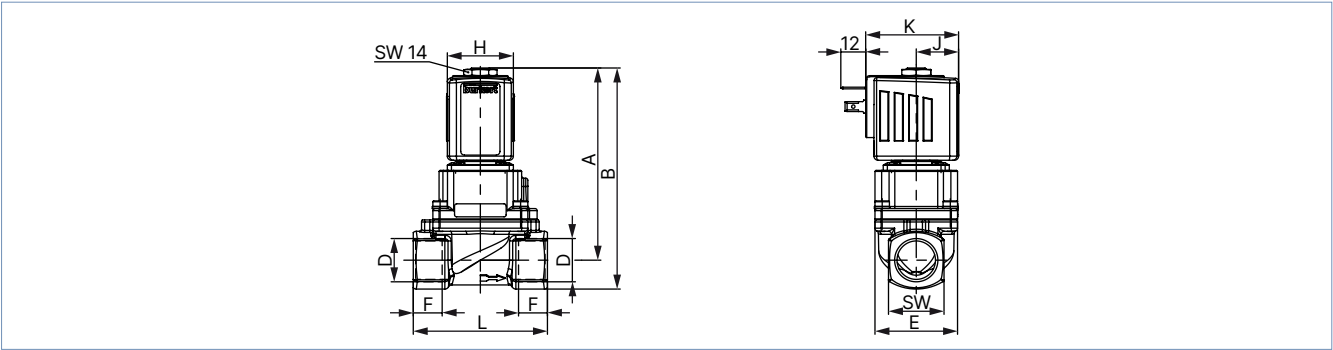
| DN | A   | B   | G thread |    | NPT thread |      | C   | L   | SW |
|----|-----|-----|----------|----|------------|------|-----|-----|----|
|    |     |     | D1       | F1 | D2         | F2   |     |     |    |
| 32 | 136 | 161 | G 1¼     | 20 | NPT 1¼     | 17.3 | 85  | 126 | 50 |
| 32 | 140 | 170 | G 1½     | 22 | NPT 1½     | 17.3 | 85  | 126 | 60 |
| 50 | 163 | 198 | G 2      | 24 | NPT 2      | 17.6 | 115 | 164 | 70 |

5.2. Steam variant NA07

Threaded variant DN 13

Note:

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

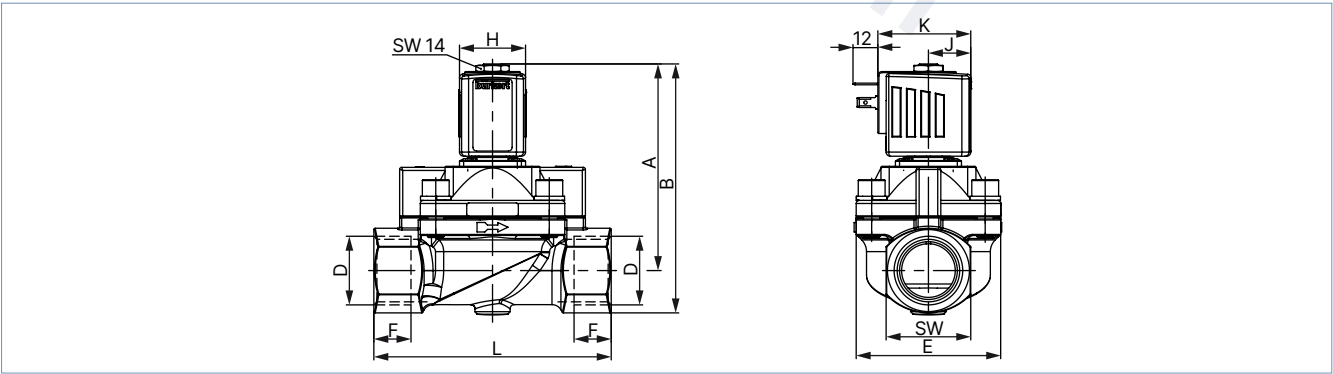


| Coil size | DN | A    | B     | G thread |    | NPT thread |      | Rc thread |      | E  | L  | SW | H  | J    | K  |
|-----------|----|------|-------|----------|----|------------|------|-----------|------|----|----|----|----|------|----|
|           |    |      |       | D1       | F1 | D2         | F2   | D3        | F3   |    |    |    |    |      |    |
| 5         | 13 | 93.1 | 107.1 | G ½      | 14 | NPT ½      | 13.7 | Rc ½      | 13.2 | 40 | 65 | 27 | 32 | 20.5 | 45 |
| 6         | 13 | 93.1 | 107.1 | G ½      | 14 | NPT ½      | 13.7 | Rc ½      | 13.2 | 40 | 65 | 27 | 40 | 23.5 | 51 |

Threaded variant DN 20 and DN 25

Note:

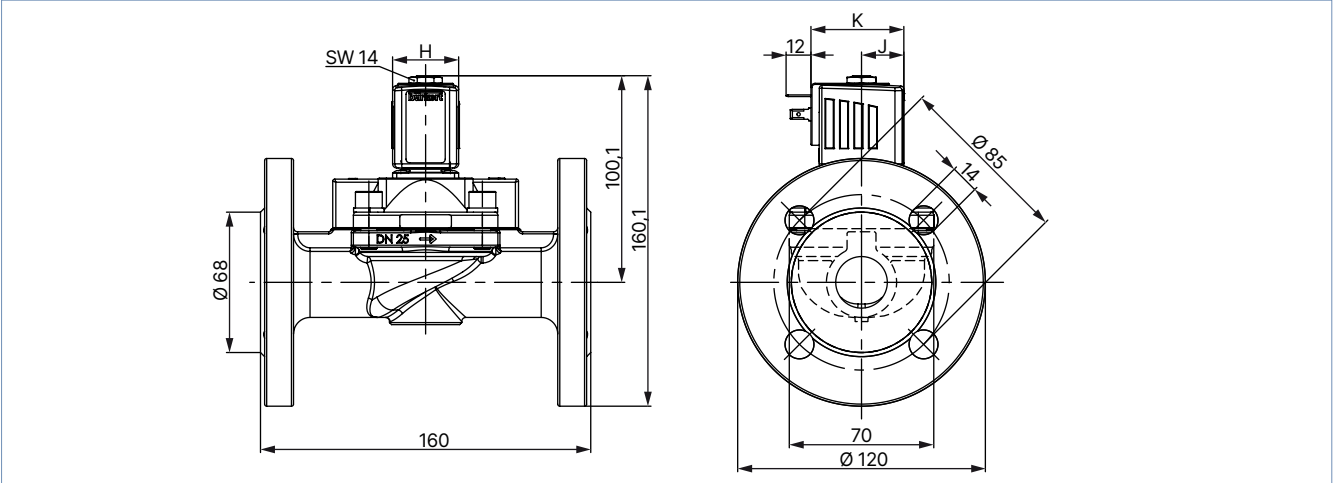
- Dimensions in mm
- The dimensions D1 and F1 apply to G thread.
- The dimensions D2 and F2 apply to NPT thread.
- The dimensions D3 and F3 apply to Rc thread.



| Coil size | DN | A     | B     | G thread |    | NPT thread |      | Rc thread |      | E  | L   | SW | H  | J    | K  |
|-----------|----|-------|-------|----------|----|------------|------|-----------|------|----|-----|----|----|------|----|
|           |    |       |       | D1       | F1 | D2         | F2   | D3        | F3   |    |     |    |    |      |    |
| 5         | 20 | 96.1  | 112.1 | G ¾      | 16 | NPT ¾      | 14   | Rc ¾      | 14.5 | 60 | 100 | 32 | 32 | 20.5 | 45 |
|           | 25 | 100.1 | 120.6 | G 1      | 18 | NPT 1      | 16.8 | Rc 1      | 16.8 | 70 | 115 | 41 |    |      |    |
| 6         | 20 | 96.1  | 112.1 | G ¾      | 16 | NPT ¾      | 14   | Rc ¾      | 14.5 | 60 | 100 | 32 | 40 | 23.5 | 51 |
|           | 25 | 100.1 | 120.6 | G 1      | 18 | NPT 1      | 16.8 | Rc 1      | 16.8 | 70 | 115 | 41 |    |      |    |

Flange variant DN 25

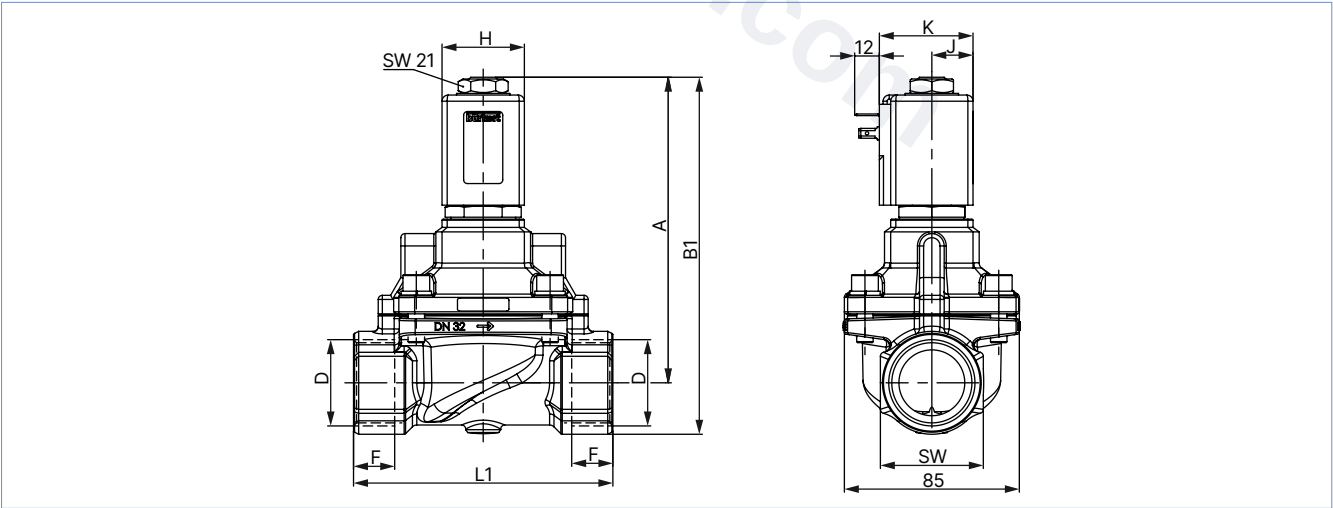
**Note:**  
Dimensions in mm



| Coil size | DN | E  | H  | J    | K  |
|-----------|----|----|----|------|----|
| 5         | 25 | 70 | 32 | 20.5 | 45 |
| 6         | 25 | 70 | 40 | 23.5 | 51 |

Threaded variant DN 32 and DN 40

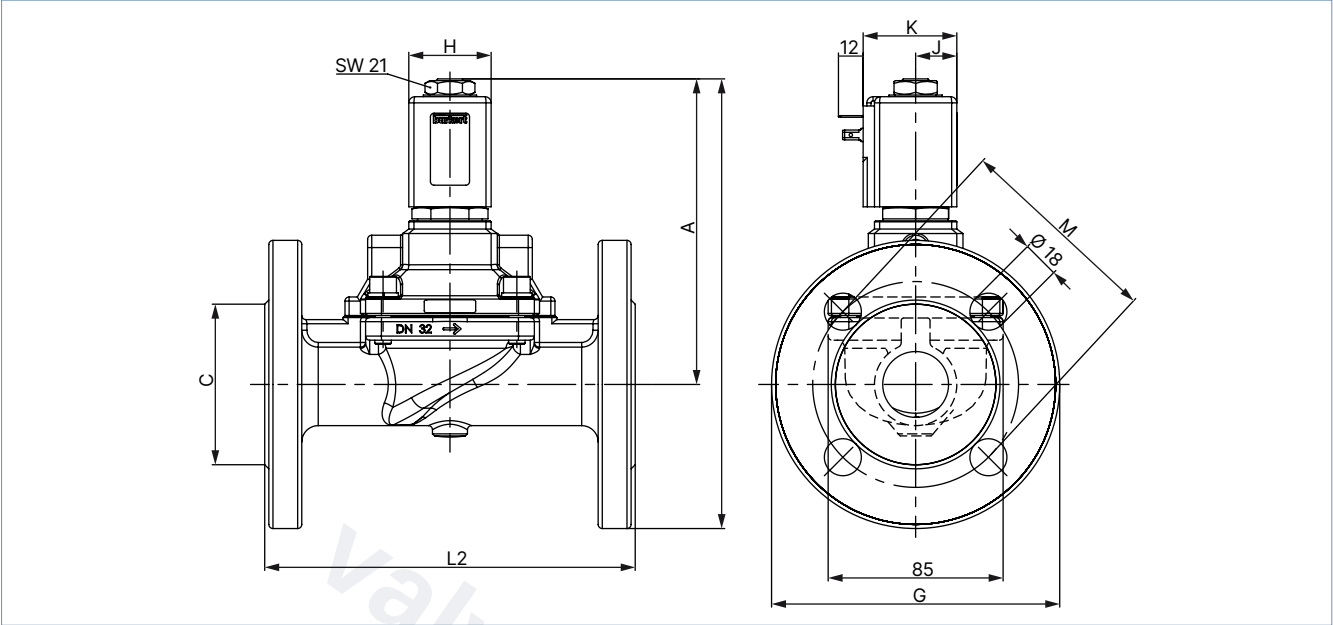
- Dimensions in mm
- The dimensions D1 and F1 apply to G thread.
- The dimensions D2 and F2 apply to NPT thread.



| Coil size | DN | A   | B1  | G thread |    | NPT thread |      | L   | B2  | C  | G   | L2  | M   | SW | H  | J  | K  |
|-----------|----|-----|-----|----------|----|------------|------|-----|-----|----|-----|-----|-----|----|----|----|----|
|           |    |     |     | D1       | F1 | D2         | F2   |     |     |    |     |     |     |    |    |    |    |
| C         | 32 | 148 | 173 | G 1¼     | 20 | NPT 1¼     | 17.3 | 126 | 218 | 78 | 140 | 180 | 100 | 50 | 40 | 20 | 45 |
|           | 40 | 153 | 181 | G 1½     | 22 | NPT 1½     | 17.3 | 126 | 227 | 88 | 150 | 200 | 110 | 60 |    |    |    |

Flange variant DN 32 and DN 40

**Note:**  
Dimensions in mm



| Coil size | DN | A   | B1  | C  | G   | L2  | M   | H  | J  | K  |
|-----------|----|-----|-----|----|-----|-----|-----|----|----|----|
| C         | 32 | 148 | 173 | 78 | 140 | 180 | 100 | 40 | 20 | 45 |
|           | 40 | 153 | 181 | 88 | 150 | 200 | 110 |    |    |    |

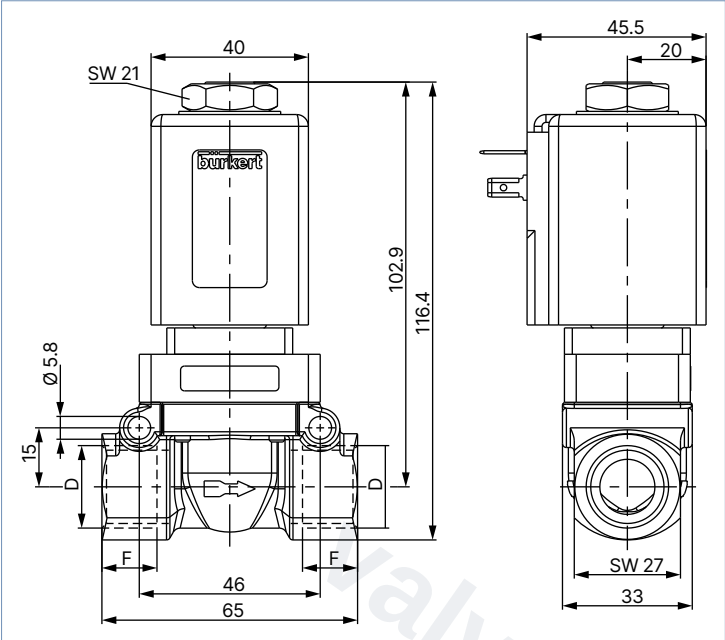


DTS 1000011017 EN Version: AE Status: RL (released | freigegeben | valide) printed: 15.01.2026

Type 5404

5.3. High pressure variant PN 08

**Note:**  
Dimensions in mm

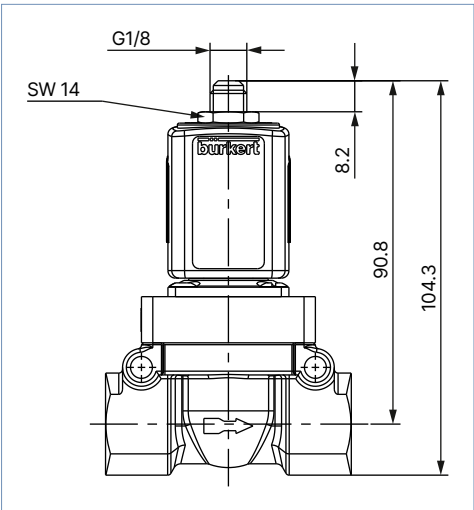


| D     | F    |
|-------|------|
| G ½   | 14   |
| NPT ½ | 13.7 |

5.4. Discharge valve for compressor systems CF05

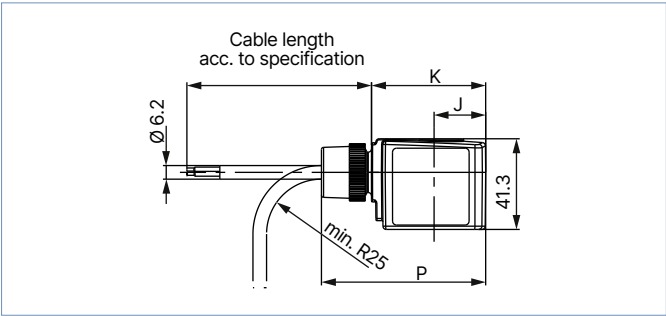
Plug variant with ventilation

**Note:**  
Dimensions in mm



5.5. ATEX/IECEx variant

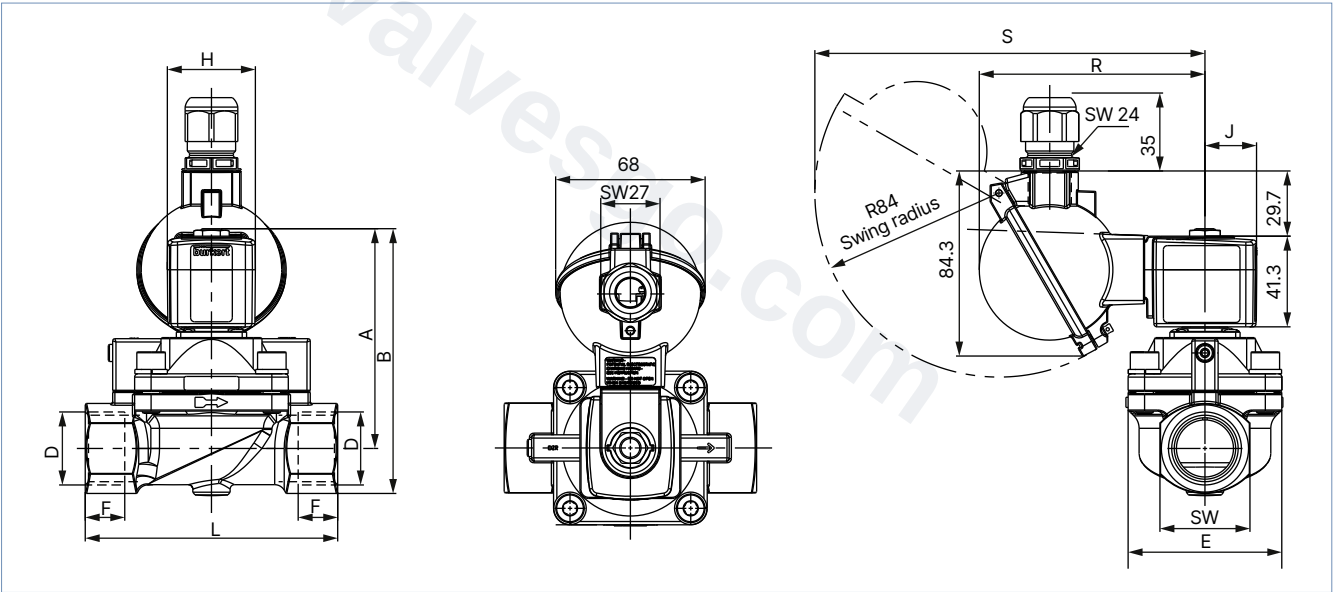
Cable variant



Terminal box variant

Note:

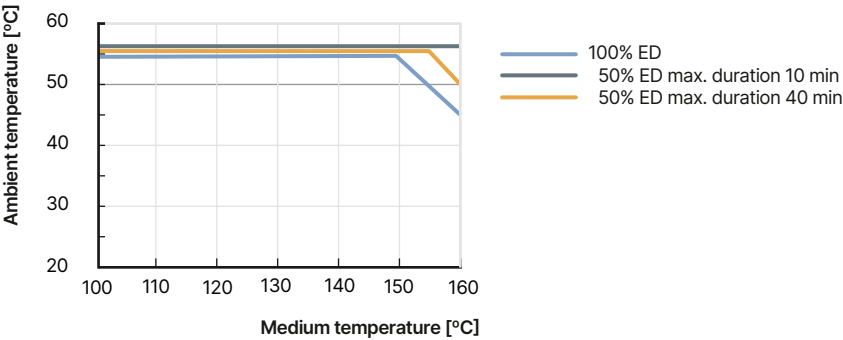
- Dimensions in mm
- The dimensions D1 and F1 apply to G thread.
- The dimensions D2 and F2 apply to NPT thread.
- The dimensions D3 and F3 apply to Rc thread.



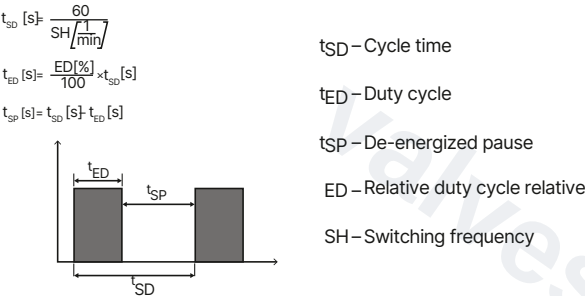
| Coil size | DN | CFA  |      | CFB  |       | G thread |    | NPT thread |      | Rc thread |      | E  | L   | SW | H  | J    | K  | P    | R     | S     |
|-----------|----|------|------|------|-------|----------|----|------------|------|-----------|------|----|-----|----|----|------|----|------|-------|-------|
|           |    | A    | B    | A    | B     | D1       | F1 | D2         | F2   | D3        | F3   |    |     |    |    |      |    |      |       |       |
| 5         | 12 | 83   | 96.5 | 90.8 | 104.3 | G ½      | 14 | NPT ½      | 13.7 | Rc ½      | 13.2 | 33 | 65  | 27 | 32 | 20.5 | 46 | 68.8 | 99.8  | 174.7 |
|           | 20 | 93   | 109  |      |       | G ¾      | 16 | NPT ¾      | 14   | Rc ¾      | 14.5 | 60 | 100 | 32 |    |      |    |      |       |       |
|           | 25 | 99.5 | 119  |      |       | G 1      | 18 | NPT 1      | 16.8 | Rc 1      | 16.8 | 70 | 115 | 41 |    |      |    |      |       |       |
| 6         | 12 | 83   | 96.5 | 90.8 | 104.3 | G ½      | 14 | NPT ½      | 13.7 | Rc ½      | 13.2 | 33 | 65  | 27 | 40 | 23.5 | 52 | 74.8 | 102.8 | 177.7 |
|           | 20 | 93   | 109  |      |       | G ¾      | 16 | NPT ¾      | 14   | Rc ¾      | 14.5 | 60 | 100 | 32 |    |      |    |      |       |       |
|           | 25 | 99.5 | 119  |      |       | G 1      | 18 | NPT 1      | 16.8 | Rc 1      | 16.8 | 70 | 115 | 41 |    |      |    |      |       |       |

6. Performance specifications

6.1. Temperature/duty cycle derating diagram for steam variant NA07



6.2. Characteristic values of intermittent operation

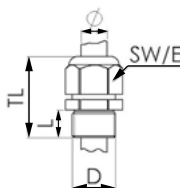
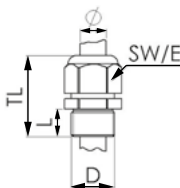


7. Product accessories

7.1. Cable glands for ATEX/IECEx terminal box

Note:

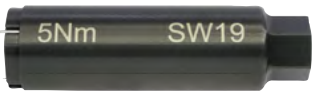
A polyamide cable gland is included in the scope of delivery. A nickel-plated brass variant can be ordered for a surcharge, see [“Cable glands for ATEX/IECEx terminal box” on page 25](#).

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

## 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 [“Cable glands for ATEX/IECEx terminal box”](#) on page 25.

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

## 8. Ordering information

### 8.1. Bürkert eShop



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### 8.2. Bürkert product filter

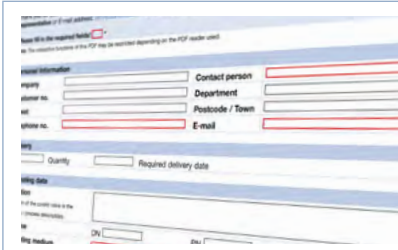


#### Bürkert product filter – Get quickly to the right product

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

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### 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.

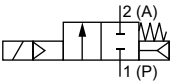
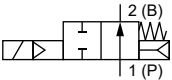
[Fill out the form now](#)

## 8.4. Ordering chart

### Standard variant DN 12...DN 25

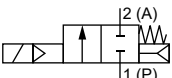
#### Note:

- Other variants are available on request.
- Please note that the cable plug must be ordered separately, see **"8.5. Ordering chart accessories"** on page 25 or separate data sheet **Type 2518** ▶

| Circuit function                                                                                                                                                  | Port connection | Orifice | K <sub>v</sub> value<br>water | Pressure range   |                | Article no.                                                                                |                                                                                            |                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|-------------------------------|------------------|----------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
|                                                                                                                                                                   |                 | [mm]    | [m³/h]                        | Liquids<br>[bar] | Gases<br>[bar] | 024/DC<br>[V/Hz]                                                                           | 024/50<br>[V/Hz]                                                                           | 230/50<br>[V/Hz]                                                                           |
| Seal material PTFE/FKM                                                                                                                                            |                 |         |                               |                  |                |                                                                                            |                                                                                            |                                                                                            |
| <b>CF A</b><br>2/2-way solenoid valve<br>Servo-controlled<br>Normally closed<br> | G ½             | 12      | 2.0                           | 1...50           | 1...50         | 308501  | 177853  | 308502  |
|                                                                                                                                                                   | G ¾             | 20      | 7.0                           | 1...25           | 1...32         | 308503  | –                                                                                          | –                                                                                          |
|                                                                                                                                                                   |                 |         |                               | 1...25           | 1...40         | –                                                                                          | 308504  | 308505  |
|                                                                                                                                                                   |                 |         |                               | 1...25           | 1...40         | 308506  | –                                                                                          | –                                                                                          |
|                                                                                                                                                                   | G 1             | 25      | 10.0                          |                  |                | –                                                                                          | 308507  | 308508  |
| <b>CF B</b><br>2/2-way solenoid valve<br>Servo-controlled<br>Normally open<br>  | G ½             | 12      | 2.0                           | 1...32           | 1...32         | 309022  | 301170  | 295636  |
|                                                                                                                                                                   | G ¾             | 20      | 7.0                           | 1...25           | 1...25         | 303209  | 295276  | 295651  |
|                                                                                                                                                                   | G 1             | 25      | 10.0                          | 1...25           | 1...25         | 295660  | 308120  | 301740  |

– = not available

### Standard variant DN 32...DN 50

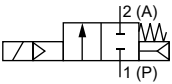
| Circuit function                                                                                                                                                    | Port connection        | Orifice | K <sub>v</sub> value water | Pressure range |             | Article no.                                                                                  |                                                                                              |                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------|----------------------------|----------------|-------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
|                                                                                                                                                                     |                        | [mm]    | [m³/h]                     | Liquids [bar]  | Gases [bar] | 024/DC [V/Hz]                                                                                | 024/50 [V/Hz]                                                                                | 230/50 [V/Hz]                                                                                |
|                                                                                                                                                                     | Seal material PTFE/FKM |         |                            |                |             |                                                                                              |                                                                                              |                                                                                              |
| <b>CF A</b><br>2/2-way solenoid valve<br>Servo-controlled<br>Normally closed<br> | G 1¼                   | 32      | 18.0                       | 1...16         | 1...16      | 122579  | –                                                                                            | –                                                                                            |
|                                                                                                                                                                     |                        |         |                            | 1...25         | 1...25      | –                                                                                            | 085337  | 085340  |
|                                                                                                                                                                     | G 1½                   | 40      | 18.0                       | 1...16         | 1...16      | 085343  | –                                                                                            | –                                                                                            |
|                                                                                                                                                                     |                        |         |                            | 1...25         | 1...25      | –                                                                                            | 085342  | 085345  |
|                                                                                                                                                                     | G 2                    | 50      | 36.0                       | 1...8          | 1...8       | 307475  | –                                                                                            | –                                                                                            |
| 1...20                                                                                                                                                              |                        |         |                            | 1...20         | –           | 307476  | 085350  |                                                                                              |

– = not available

## Steam variant NA07, DN 13...DN 25

## Note:

- Please note that the cable plug must be ordered separately, see ["8.5. Ordering chart accessories" on page 25](#) or separate data sheet **Type 2518** ▶
- Due to the temperature range, the cable plug with silicone seal is provided for steam variants NA07.
- Please also note the derating diagram, see ["6.1. Temperature/duty cycle derating diagram for steam variant NA07" on page 19](#).

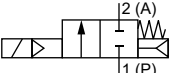
| Circuit function                                                                                                                                                  | Port connection                | Orifice | K <sub>v</sub> value water | Pressure range | Max. medium temperature | Body material   | Article no.                                                                                |                                                                                                |                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|---------|----------------------------|----------------|-------------------------|-----------------|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
|                                                                                                                                                                   |                                |         |                            |                |                         |                 | 024/DC                                                                                     | 024/50                                                                                         | 230/50                                                                                         |
|                                                                                                                                                                   |                                | [mm]    | [m³/h]                     | [bar]          | [°C]                    |                 | [V/Hz]                                                                                     | [V/Hz]                                                                                         | [V/Hz]                                                                                         |
| Seal material PTFE/graphite                                                                                                                                       |                                |         |                            |                |                         |                 |                                                                                            |                                                                                                |                                                                                                |
| <b>CF A</b><br>2/2-way solenoid valve<br>Servo-controlled<br>Normally closed<br> | G ½                            | 13      | 3.7                        | 1...5          | 150                     | Brass           | 307267  | –                                                                                              | –                                                                                              |
|                                                                                                                                                                   |                                |         |                            | 1...12         |                         | Brass           | –                                                                                          | 307269      | 307276      |
|                                                                                                                                                                   |                                |         |                            | 1...12         | 180                     | Brass           | –                                                                                          | 20004404    | 20004405    |
|                                                                                                                                                                   | G ¾                            | 20      | 7.0                        | 1...5          | 150                     | Brass           | 307286  | –                                                                                              | –                                                                                              |
|                                                                                                                                                                   |                                |         |                            | 1...12         |                         | Brass           | –                                                                                          | 307284      | 307326      |
|                                                                                                                                                                   |                                |         |                            | 1...12         | 180                     | Brass           | –                                                                                          | 20004406    | 20004407    |
|                                                                                                                                                                   | G 1                            | 25      | 10.0                       | 1...5          | 150                     | Brass           | 307342  | –                                                                                              | –                                                                                              |
|                                                                                                                                                                   |                                |         |                            | 1...12         |                         | Brass           | –                                                                                          | 307343      | 307351      |
|                                                                                                                                                                   |                                |         |                            | 1...12         | 180                     | Brass           | –                                                                                          | 20004409    | 20004410    |
|                                                                                                                                                                   | Flange acc. to DIN EN 1902 - 1 | 25      | 10.0                       | 1...5          | 150                     | Stainless steel | 354392  | –                                                                                              | –                                                                                              |
|                                                                                                                                                                   |                                |         |                            | 1...12         |                         | Stainless steel | –                                                                                          | 20004413    | 354392      |
|                                                                                                                                                                   |                                |         |                            | 1...12         | 180                     | Stainless steel | –                                                                                          | 20004411  | 20004412  |

– = not available

## Steam variant NA07, DN 32...DN 40

## Note:

- Please note that the cable plug must be ordered separately, see ["8.5. Ordering chart accessories" on page 25](#) or separate data sheet **Type 2518** ▶
- Due to the temperature range, the cable plug with silicone seal is provided for steam variants NA07.
- Please also note the derating diagram, see ["6.1. Temperature/duty cycle derating diagram for steam variant NA07" on page 19](#).

| Circuit function                                                                                                                                                    | Port connection                | Orifice | K <sub>v</sub> value water | Pressure range | Body material   | Article no. |          |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|---------|----------------------------|----------------|-----------------|-------------|----------|----------|
|                                                                                                                                                                     |                                |         |                            |                |                 | 024/DC      | 024/50   | 230/50   |
|                                                                                                                                                                     |                                | [mm]    | [m³/h]                     | [bar]          |                 | [V/Hz]      | [V/Hz]   | [V/Hz]   |
| Seal material PTFE/graphite                                                                                                                                         |                                |         |                            |                |                 |             |          |          |
| <b>CF A</b><br>2/2-way solenoid valve<br>Servo-controlled<br>Normally closed<br> | G 1¼                           | 32      | 18.0                       | 1...4          | Brass           | 316584 𐀀    | –        | –        |
|                                                                                                                                                                     |                                |         |                            | 1...12         | Brass           | –           | 316580 𐀀 | 316579 𐀀 |
|                                                                                                                                                                     | Flange acc. to DIN EN 1902 - 1 | 32      | 18.0                       | 1...4          | Stainless steel | o. r.       | –        | –        |
|                                                                                                                                                                     |                                |         |                            | 1...12         | Stainless steel | –           | o. r.    | 363040 𐀀 |
|                                                                                                                                                                     | G 1½                           | 40      | 18.0                       | 1...4          | Brass           | 316592 𐀀    | –        | –        |
|                                                                                                                                                                     |                                |         |                            | 1...12         | Brass           | –           | 316586 𐀀 | 316588 𐀀 |
|                                                                                                                                                                     | Flange acc. to DIN EN 1902 - 1 | 40      | 18.0                       | 1...4          | Stainless steel | o. r.       | –        | –        |
|                                                                                                                                                                     |                                |         |                            | 1...12         | Stainless steel | –           | 370111 𐀀 | 363041 𐀀 |

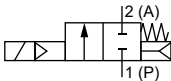
– = not available

o. r. = on request

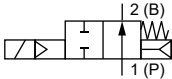
High pressure variant PN 08

Note:

- Please note that the cable plug must be ordered separately, see **"8.5. Ordering chart accessories" on page 25** or separate data sheet **Type 2518** ▶
- High shut off levels may occur with liquids and high differential pressure!
- Please note: fluids and high differential pressure may cause high pressure surges.

| Circuit function                                                                                                                                                      | Port connection | Orifice | K <sub>v</sub> value water | Pressure range |        | Article no.                                                                              |                                                                                          |                                                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|----------------------------|----------------|--------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
|                                                                                                                                                                       |                 |         |                            | Liquids        | Gases  | 024/DC                                                                                   | 024/50                                                                                   | 230/50                                                                                   |
|                                                                                                                                                                       |                 | [mm]    | [m³/h]                     | [bar]          | [bar]  | [V/Hz]                                                                                   | [V/Hz]                                                                                   | [V/Hz]                                                                                   |
| Seal material PTFE/FKM                                                                                                                                                |                 |         |                            |                |        |                                                                                          |                                                                                          |                                                                                          |
| <b>CF A</b><br>2/2-way solenoid valve<br>Servo-controlled<br>Normally closed<br><br> | G ½             | 12      | 2.0                        | 1...80         | 1...80 | 304191  | 304193  | 304194  |

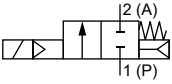
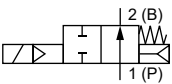
Discharge valve for compressor systems CF05

| Circuit function                                                                                                                                                  | Port connection | Orifice<br>[mm] | K <sub>v</sub> value<br>water<br>[m³/h] | Pressure range   |                | Article no.      |                  |                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------|-----------------------------------------|------------------|----------------|------------------|------------------|------------------|
|                                                                                                                                                                   |                 |                 |                                         | Liquids<br>[bar] | Gases<br>[bar] | 024/DC<br>[V/Hz] | 024/50<br>[V/Hz] | 230/50<br>[V/Hz] |
| <b>CF B</b><br>2/2-way solenoid valve<br>Servo-controlled<br>Normally open<br> | G ½             | 12              | 2.0                                     | 1...40           | 1...40         | 301723 𐀀         | 308781 𐀀         | 308783 𐀀         |

## ATEX/IECEx cable variant

## Note:

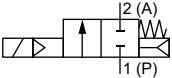
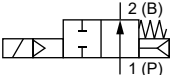
The pressure values for liquid media are shown on the rating plate.

| Circuit function                                                                                                                                                  | Port connection | Orifice | K <sub>v</sub> value<br>water | Pressure range   |                | Article no.                                                                              |                                                                                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|-------------------------------|------------------|----------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
|                                                                                                                                                                   |                 | [mm]    | [m³/h]                        | Liquids<br>[bar] | Gases<br>[bar] | 24 / AC/DC<br>[V/Hz]                                                                     | 230 / AC/DC<br>[V/Hz]                                                                    |
| Seal material PTFE/FKM                                                                                                                                            |                 |         |                               |                  |                |                                                                                          |                                                                                          |
| <b>CF A</b><br>2/2-way solenoid valve<br>Servo-controlled<br>Normally closed<br> | G ½             | 12      | 2.0                           | 1...50           | 1...50         | 349290  | 349292  |
|                                                                                                                                                                   | G ¾             | 20      | 7.0                           | 1...25           | 1...32         | 349294  | 349296  |
|                                                                                                                                                                   | G 1             | 25      | 10.0                          | 1...25           | 1...32         | 349300  | 349301  |
|                                                                                                                                                                   |                 |         |                               |                  |                |                                                                                          |                                                                                          |
| <b>CF B</b><br>2/2-way solenoid valve<br>Servo-controlled<br>Normally open<br>   | G ½             | 12      | 2.0                           | 1...32           | 1...32         | 349302  | 349304  |
|                                                                                                                                                                   | G ¾             | 20      | 7.0                           | 1...25           | 1...25         | 349307  | 349309  |
|                                                                                                                                                                   | G 1             | 25      | 10.0                          | 1...25           | 1...25         | 349310  | 349313  |
|                                                                                                                                                                   |                 |         |                               |                  |                |                                                                                          |                                                                                          |

## ATEX/IECEx terminal box variant

## Note:

- Please note that the cable plug must be ordered separately, see **"8.5. Ordering chart accessories" on page 25** or separate data sheet **Type 2509** ▶.
- The pressure values for liquid media are shown on the rating plate.

| Circuit function                                                                                                                                                        | Port connection | Orifice | K <sub>v</sub> value<br>water | Pressure range   |                | Article no.                                                                                  |                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|-------------------------------|------------------|----------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
|                                                                                                                                                                         |                 | [mm]    | [m <sup>3</sup> /h]           | Liquids<br>[bar] | Gases<br>[bar] | 24 / AC/DC<br>[V/Hz]                                                                         | 230 / AC/DC<br>[V/Hz]                                                                        |
| Seal material PTFE/FKM                                                                                                                                                  |                 |         |                               |                  |                |                                                                                              |                                                                                              |
| <b>CF A</b><br>2/2-way solenoid valve<br>Servo-controlled<br>Normally closed<br><br> | G ½             | 12      | 2.0                           | 1...50           | 1...50         | 349289  | 349293  |
|                                                                                                                                                                         | G ¾             | 20      | 7.0                           | 1...25           | 1...32         | 349295  | 349297  |
|                                                                                                                                                                         | G 1             | 25      | 10.0                          | 1...25           | 1...32         | 349299  | 349297  |
|                                                                                                                                                                         |                 |         |                               |                  |                |                                                                                              |                                                                                              |
| <b>CF B</b><br>2/2-way solenoid valve<br>Servo-controlled<br>Normally open<br><br>   | G ½             | 12      | 2.0                           | 1...32           | 1...32         | 349303  | 349305  |
|                                                                                                                                                                         | G ¾             | 20      | 7.0                           | 1...25           | 1...25         | 349306  | 349308  |
|                                                                                                                                                                         | G 1             | 25      | 10.0                          | 1...25           | 1...25         | 349311  | 349312  |
|                                                                                                                                                                         |                 |         |                               |                  |                |                                                                                              |                                                                                              |

## Further variants on request

|                                                                                                                                                                                                       |                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
|  <b>Approval</b><br>Further information can be found in chapter <b>"3. Approvals and conformities" on page 5</b> . |  <b>Temperature</b><br>Special temperature ranges      |
|                                                                                                                                                                                                       |  <b>Voltage</b><br>110/50, further voltages on request |
|  <b>Process connection</b> <ul style="list-style-type: none"> <li>• NPT</li> <li>• UN</li> </ul>                   |                                                                                                                                           |

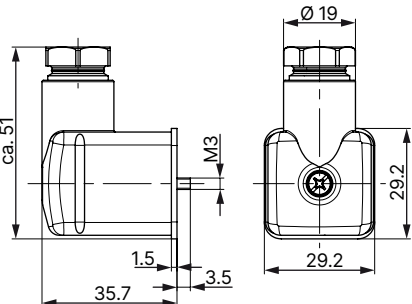


## 8.5. Ordering chart accessories

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

**Note:**

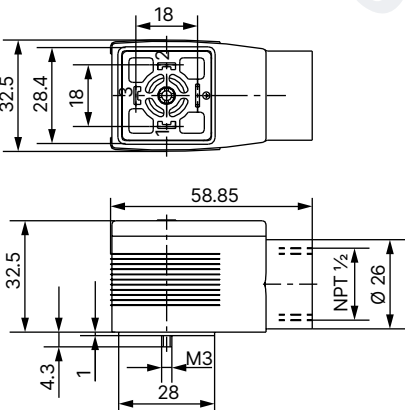
- Dimensions in mm
- For further variants see data sheet **Type 2518** ►

| Cable plug                                                                        | Dimensions                                                                        | Variant                                                                                             | Voltage         | Article no. |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------|-------------|
|  |  | Without wiring (AC/DC)                                                                              | 0...250 V AC/DC | 314802 𐀀    |
|                                                                                   |                                                                                   | With LED (AC/DC)                                                                                    | 12...24 V AC/DC | 314812 𐀀    |
|                                                                                   |                                                                                   | With LED and varistor (AC/DC)                                                                       | 12...24 V AC/DC | 314820 𐀀    |
|                                                                                   |                                                                                   | With rectifier, LED and varistor                                                                    | 12...24 V AC/DC | 314816 𐀀    |
|                                                                                   |                                                                                   | Without wiring (AC/DC) with silicone seal for higher ambient temperature, e.g. steam variant (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 wiring (standard)
- The cable plug Type 2509 meets the requirements of ATEX Cat. 3 GD in assembly with a Bürkert solenoid valve.
- The cable plug Type 2509 meets the requirements of UL Listed (UL 429) in assembly with a Bürkert solenoid valve.
- Refer to data sheet **Type 2509** ► for more information about the cable plug.

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

### Cable glands for ATEX/IECEx terminal box

**Note:**

- A polyamide cable gland is included in the scope of delivery. A nickel-plated brass variant can be ordered for a surcharge.
- Refer to **"7.1. Cable glands for ATEX/IECEx terminal box"** on page 19 for more information about Ex cable glands.
- Refer to **"7.2. Special tool to turn the terminal box"** on page 20 for more information about special tool.

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

1.) Cable diameter

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