



2/2 or 3/2 way Rocker-Solenoid Valve with separating diaphragm

- With isolating diaphragm
- Compact design with 16 mm width and Cv ratings up to 0.058
- Flexible design for custom manifold assemblies
- High back pressure tightness, excellent cleanability and 100 % duty cycle
- Normally closed, normally open and universal function

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

Can be combined with



Type 2516

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



Type 2505

10 mm socket for Burkert
small solenoid valves

Type description

The direct-acting rocker solenoid valve, Type 6126, is suitable for general applications in which compressed air, gases or slightly contaminated liquids are to be switched. The medium is in contact exclusively with the housing material and the FKM seals. The heat input in the medium is minimal, because the housing is separated from the coil by a stainless steel plate. The valves can be mounted directly or also single or manifold mounted. They are used for dosing, filling, mixing and distributing small quantities of medium.

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1. General technical data

1.1. General data

| Product properties | |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dimensions | Further information can be found in chapter " 5. Dimensions " on page 7. |
| Material | |
| Seal | FKM, EPDM |
| Fluidic housing | PPS |
| Internal volume | Sub-base: starting at 44 µl < 10 µl available on request Further information can be found in chapter " 1.4. Internal volume " on page 4. |
| Orifice | DN 0.8...DN 1.6 |
| Circuit function | A, B and T Further information can be found in chapter " 2. Circuit functions " on page 5. |
| Performance data | |
| Switching time ¹⁾ | Open: approx. 25 ms (pressure build-up 0...10 %) Closing: approx. 25 ms (pressure reduction 100...90 %) |
| Electrical data | |
| Operating voltage | 12/24 V DC (other voltages on request) |
| Duty cycle | 100 % continuous operation Manifold mounting: If medium or ambient temperatures are above + 40 °C: intermittent operation 40 % (minimum 10 min) |
| Nominal power | 3.4 W |
| Voltage tolerance | ± 10 % |
| Medium data | |
| Operating medium | Resistant to neutral and aggressive liquids and gases (see chapter " 4.1. Burkert resistApp " on page 6) |
| Medium temperature | Max. - 10 °C...+ 55 °C Further information can be found in chapter " 1.3. Medium temperature " on page 4. |
| Viscosity | Max. 21 mm ² /s |
| Process/Port connection & communication | |
| Electrical connection ²⁾ | Plug contacts according to DIN EN 175301 - 803 form C for cable plug Type 2516 ▶ top/lateral Two FEP-leads 0.2 mm ² (AWG24), length 500 mm Rectangular cable plug Type 2505 ▶ |
| Port connection | Bürkert sub-base (16 × 27 mm) |
| Approvals and conformities | |
| Degree of protection | IP65 with flying leads or cable plug Type 2516 ▶ IP30 with rectangular cable plug Type 2505 ▶ |
| Foods and beverages/Hygiene | FDA (on request only with seal material EPDM) Further information can be found in chapter " 3.4. Foods and beverages/Hygiene " on page 5. |
| Environment and installation | |
| Installation | As required, preferably with actuator upright |
| Ambient temperature | Max. + 55 °C |

1.) Measurement at + 20 °C, 2 bar at the valve outlet according to DIN ISO 12238:2001

2.) Other electric connectors and other cable lengths are available on request.

1.2. Medium pressure

Note:

- Deviating pressure ranges are possible on request.
- For low dead volume versions, the back pressure is limited to a maximum of 1 bar.

| Circuit functions | Orifice [mm] | Port connection | Max. differential pressure [bar] ^{1.)} |
|------------------------------------------------------------------------------------------------|-----------------|-----------------|----------------------------------------------------|
| CF A 2/2-way solenoid valve Direct-acting Normally closed | 0.8 | Sub-base | 0...6 |
| | 1.2 | Sub-base | 0...5 |
| | 1.6 | Sub-base | 0...3 |
| CF B 2/2-way solenoid valve Direct-acting Normally open | 0.8 | Sub-base | 0...6 |
| | 1.2 | Sub-base | 0...5 |
| | 1.6 | Sub-base | 0...3 |
| CF T 3/2-way solenoid valve Direct-acting Flow direction optional Universal | 0.8 | Sub-base | 0...6 |
| | 1.2 | Sub-base | 0...5 |
| | 1.6 | Sub-base | 0...3 |

1.) Pressure data: overpressure to atmospheric pressure

1.3. Medium temperature

Note:

The permissible medium temperature depends on the seal material and orifice.

| Description | Orifice | Seal material | Temperature range |
|--------------------------------------------------------------------------|-------------------------------|---------------|-------------------|
| Medium temperature | DN 0.8 | FKM | 0...+ 50 °C |
| | DN 0.8 | EPDM | - 5...+ 50 °C |
| | DN 1.2 and 1.6 | FKM | + 5...+ 50 °C |
| | DN 1.2 and 1.6 | EPDM | 0...+ 50 °C |
| Medium temperature with limitation on switching time and life expectancy | DN 0.8 | FKM | - 5...+ 55 °C |
| | DN 0.8 | EPDM | - 10...+ 50 °C |
| | DN 1.2 and 1.6 ^{1.)} | FKM | 0...+ 55 °C |
| | DN 1.2 and 1.6 | EPDM | - 5...+ 50 °C |

1.) The orifice sizes are available up to - 15 °C on request.

1.4. Internal volume

Note:

The internal volume is depending on fluidic housing.

| Body | 2-way (low dead volume) | | 2-way | | 3-way | |
|----------|-------------------------|-------|---------------|--------|---------------|--------|
| | Fluid chamber | Total | Fluid chamber | Total | Fluid chamber | Total |
| Sub-base | 44 µl | 54 µl | 97 µl | 106 µl | 90 µl | 106 µl |

2. Circuit functions

| Symbol | Description |
|--------|---------------------------------------------------------------------------------------------------------------------|
| | Circuit function A (CF A) 2/2-way solenoid valve Direct-acting Normally closed |
| | Circuit function B (CF B) 2/2-way solenoid valve Direct-acting Normally open |
| | Circuit function T (CF T) 3/2-way solenoid valve Direct-acting Flow direction optional Universal |

3. Approvals and conformities

3.1. General notes

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

3.2. Conformity

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

3.3. Standards

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

3.4. Foods and beverages/Hygiene

| Conformity | Description |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FDA | FDA – Code of Federal Regulations (valid for the variable code PL03) All wetted materials are compliant with the Code of Federal Regulations published by the FDA (Food and Drug Administration, USA) according to the manufacturer's declaration. |

4. Materials

4.1. Burkert resistApp

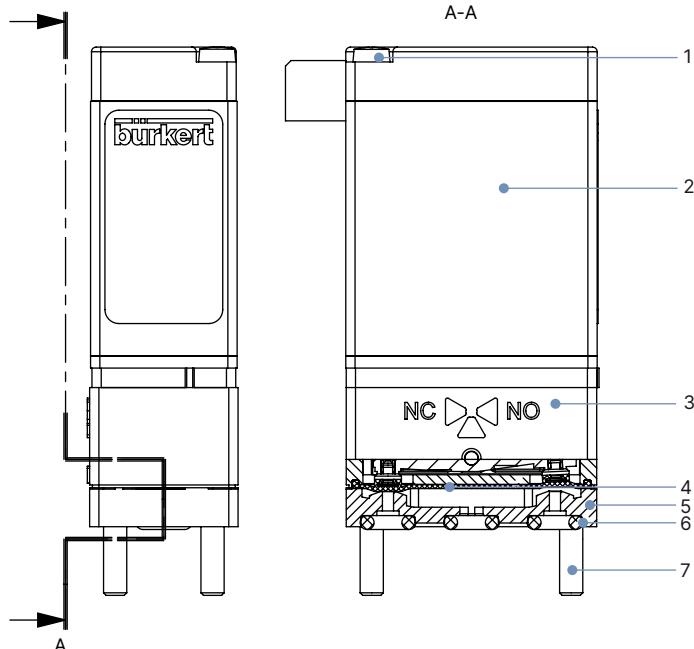


Bürkert resistApp – Chemical resistance chart

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

[Start chemical resistance check](#)

4.2. Material specifications



| No. | Element | Material |
|-----|-----------------------------|-----------------|
| 1 | Rounded head screw M2 | Stainless steel |
| 2 | Coil | Epoxy |
| 3 | Actuator housing | PPS |
| 4 | Diaphragm ¹⁾ | FKM, EPDM |
| 5 | Fluid housing ¹⁾ | PPS |
| 6 | Sub-base seal ¹⁾ | FKM, EPDM |
| 7 | Rounded head screw M2.5 | Stainless steel |

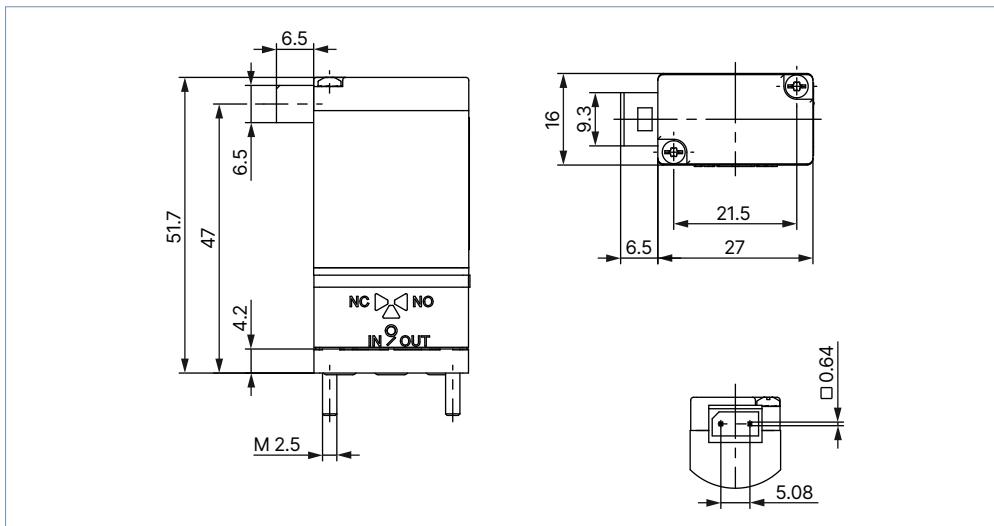
1.) in contact with medium

5. Dimensions

5.1. Sub-base version with rectangular plug Type 2505

Note:

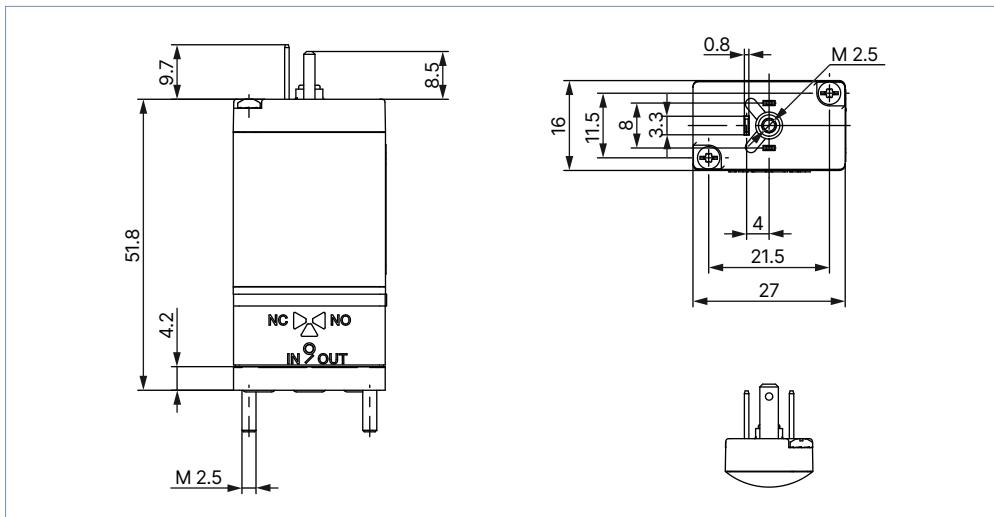
- Dimensions in mm
- Other screw lengths are available on request.
- Self-tapping screws are available on request.



5.2. Sub-base version with cable plug on top Type 2516

Note:

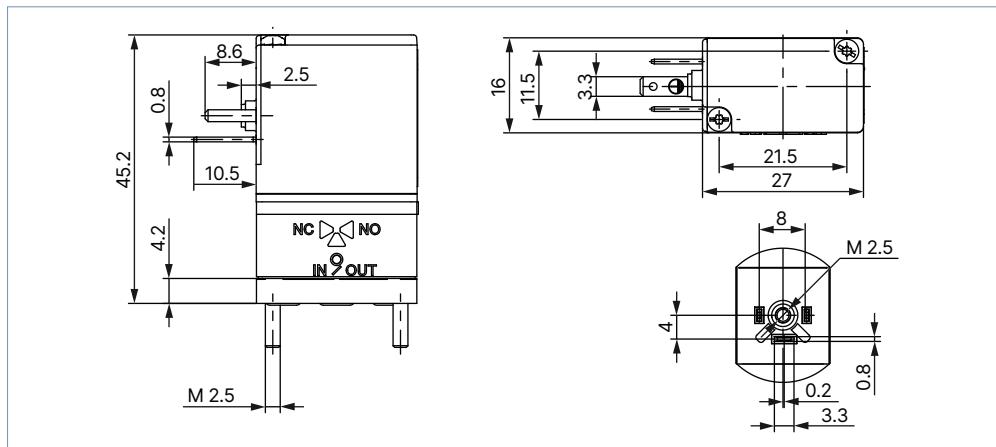
- Dimensions in mm
- Other screw lengths are available on request.
- Self-tapping screws are available on request.



5.3. Sub-base version with cable plug lateral Type 2516

Note:

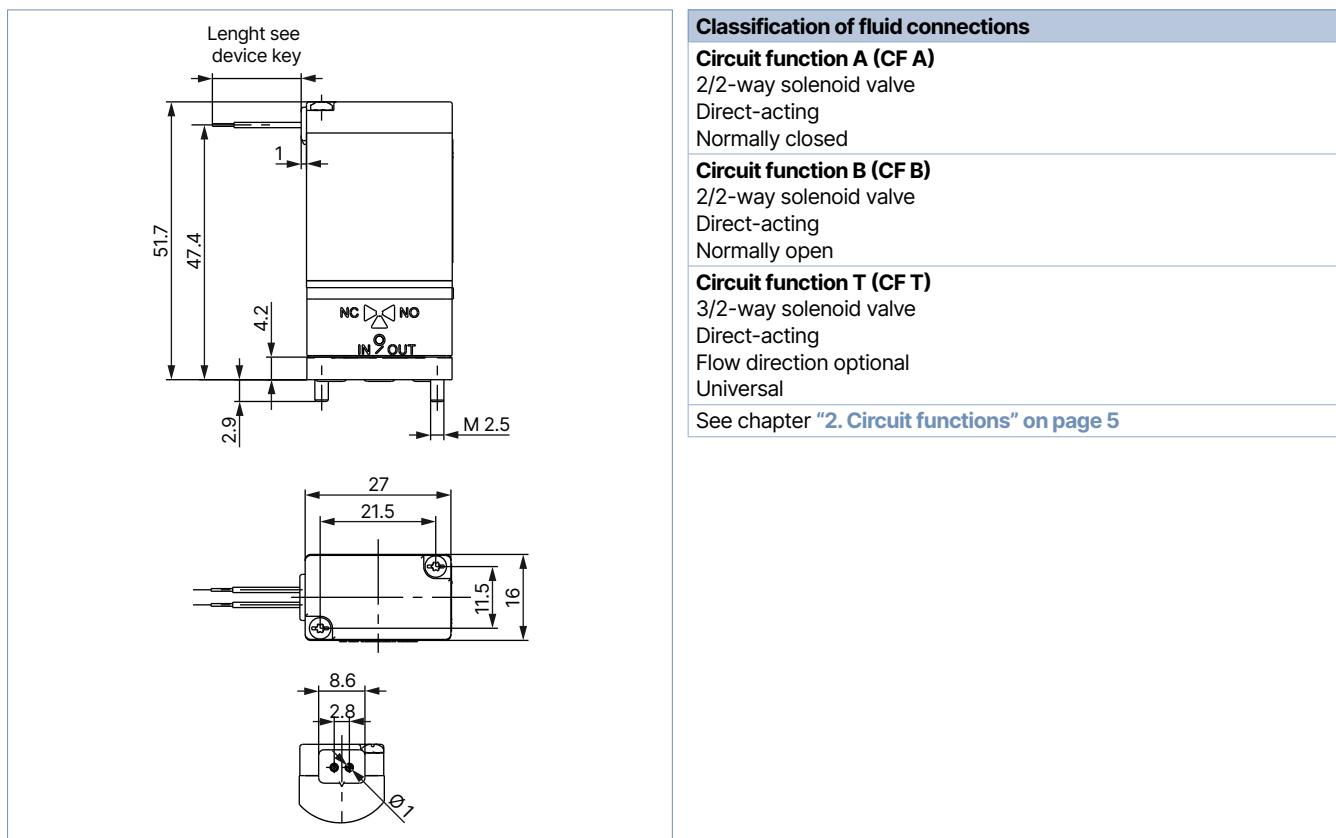
- Dimensions in mm
- Other screw lengths are available on request.
- Self-tapping screws are available on request.



5.4. Sub-base version with flying leads

Note:

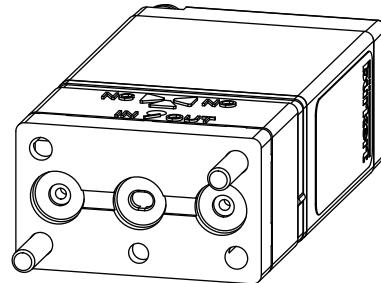
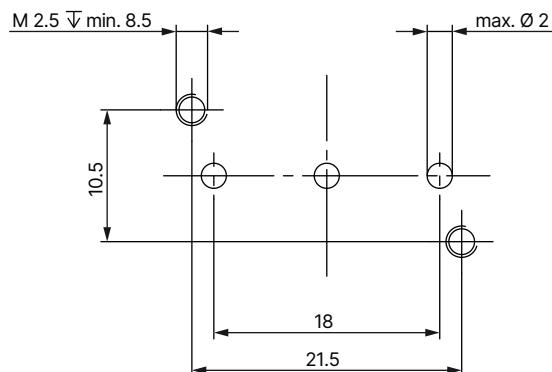
- Dimensions in mm
- Other screw lengths are available on request.
- Self-tapping screws are available on request.



5.5. Bürkert sub-base interface, 3-way standard

Note:

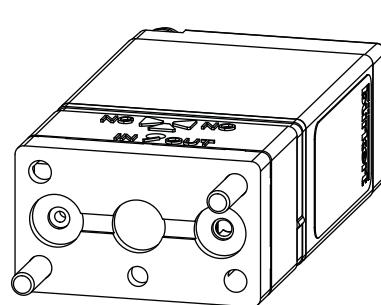
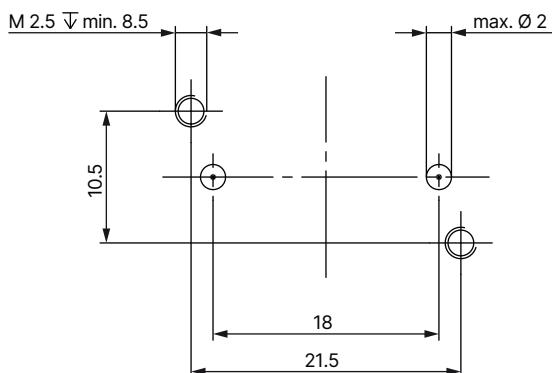
Dimensions in mm



5.6. Bürkert sub-base interface, 2-way standard

Note:

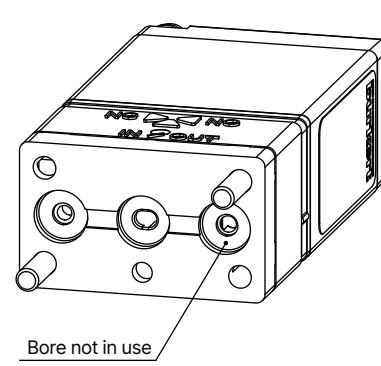
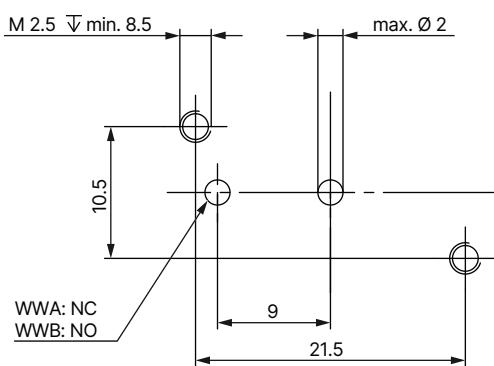
Dimensions in mm



5.7. Bürkert sub-base interface, 2-way (low dead volume)

Note:

- Dimensions in mm
- Available on request



6. Ordering information

6.1. Bürkert eShop



Bürkert eShop – Easy ordering and quick delivery

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

[Order online now](#)

6.2. Bürkert product filter



Bürkert product filter – Get quickly to the right product

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

[Try out our product filter](#)

6.3. 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](#)

6.4. Ordering chart

Note:

- Deviating pressure ranges are possible on request.
- 2 x fixing screws M2.5 for sub-base versions are included in the scope of delivery.
- Connectors for rectangular plugs and cable plugs are not included in the scope of delivery and must be ordered separately, see "[6.5. Ordering chart accessories](#)" on page 11.

| Circuit function | Port connection | Orifice | Q _{Nn} value air | K _v value water | C _v value | Voltage/Frequency | Pressure range | Body material | Seal material | Electrical connection | Article no. |
|---------------------------------------------------------------------------|-----------------|---------|---------------------------|----------------------------|----------------------|-------------------|----------------|---------------|---------------|-----------------------|-------------|
| | | [mm] | [l/min] | [m ³ /h] | [gal/min] | [V/Hz] | | | | | |
| CF A 2/2-way solenoid valve Direct-acting Normally closed | Sub-base | 0.8 | 16 | 0.015 | 0.017 | 12/DC | 0..6 | PPS | FKM | Cable plug, lateral | 139151 |
| | | | | | | 24/DC | | | | Rectangular plug | 139088 |
| | | | | | | 24/DC | | | EPDM | 139236 | |
| | | | | | | 12/DC | | | | 139154 | |
| | | | | | | 24/DC | | | | 139155 | |

| Circuit function | Port connection | Orifice | Q_{Nn} value air | K_v value water | C_v value | Voltage/ Frequency | Pressure range | Body material | Seal material | Electrical connection | Article no. |
|------------------------------------------------------------------------------------------------|-----------------|---------|--------------------|-------------------|-------------|--------------------|----------------|---------------|---------------|-----------------------|-------------|
| | | [mm] | [l/min] | [m³/h] | [gal/min] | [V/Hz] | | | | | |
| CF T 3/2-way solenoid valve Direct-acting Flow direction optional Universal | Sub-base | 0.8 | 16 | 0.015 | 0.017 | 12/DC | 0...6 | PPS | FKM | Cable plug, lateral | 139158 ☰ |
| | | | | | | 24/DC | | | | Rectangular plug | 139159 ☰ |
| | | | | | | 24/DC | | | | 139237 ☰ | |
| | | | | | | 12/DC | | | EPDM | Cable plug, lateral | 139162 ☰ |
| | | | | | | 24/DC | | | | 139163 ☰ | |
| | | | | | | | | | | | |

1.) Pressure data: overpressure to atmospheric pressure

6.5. Ordering chart accessories

Rectangular cable plug Type 2505

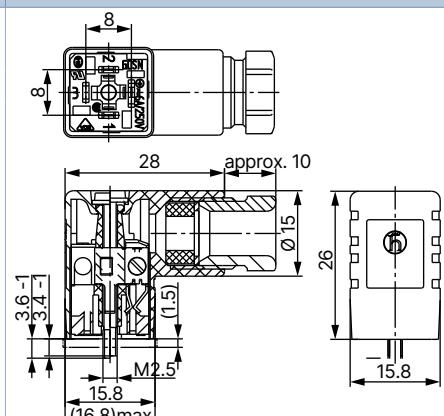
Note:

For further versions see data sheet **Type 2505** ►.

| Accessories | Description | Article no. |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
|  | Cable plug 10 mm with cable, 2-pin, rectangular plug, straight, cable length: 3 m (Type 2505) Cable plug 10 mm with cable, 2-pin, rectangular plug, straight, cable length: 5 m (Type 2505) | 252572 ☰ 255194 ☰ |
|  | Cable plug 10 mm with cable, 2-pin, rectangular plug, straight, cable length: 0,3 m (Type 2505) Cable plug 10 mm with cable, 2-pin, rectangular plug, straight, cable length: 0,6 m (Type 2505) | 644068 ☰ 162144 ☰ |
|  | Cable plug 10 mm, 2-pin, rectangular plug, straight (Type 2505) | 644067 ☰ |

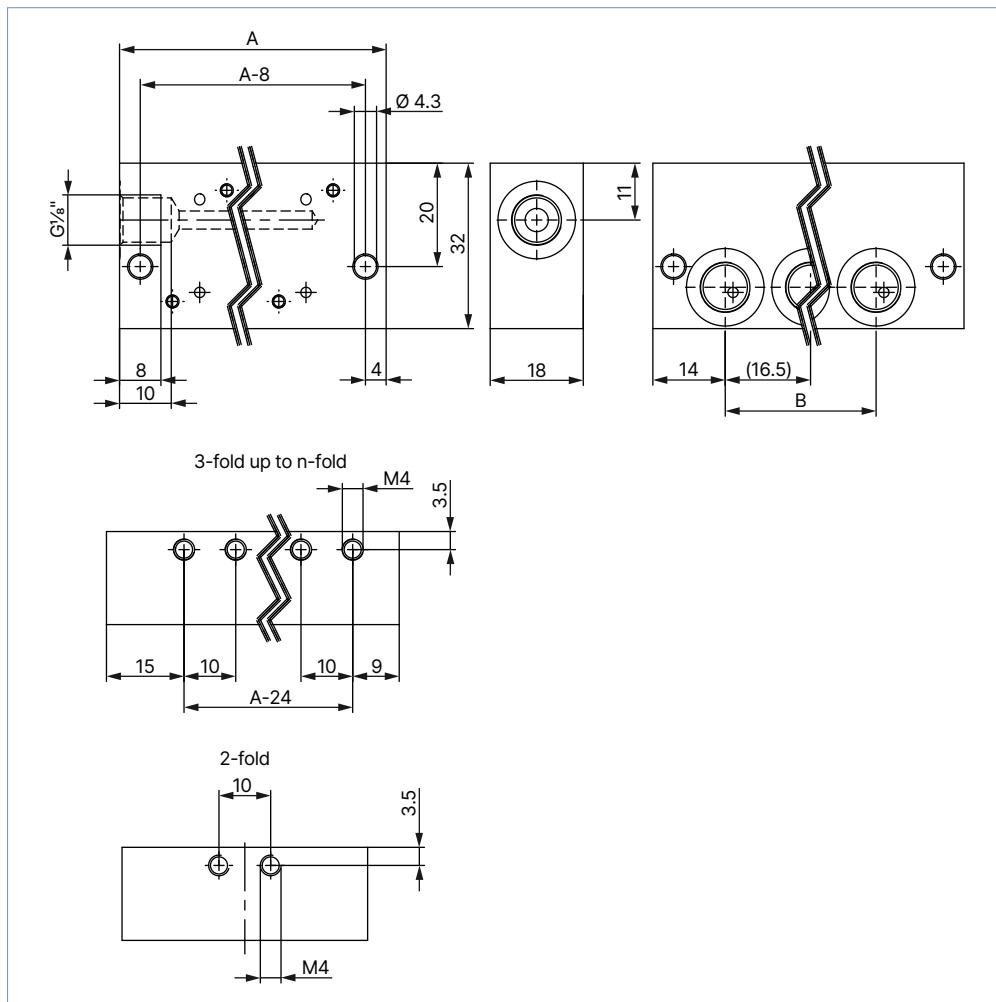
Cable plug Type 2516, form C according to DIN EN 175301 - 803**Note:**

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

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

Multiple manifolds for Burkert sub-base interface, 2-way
Note:

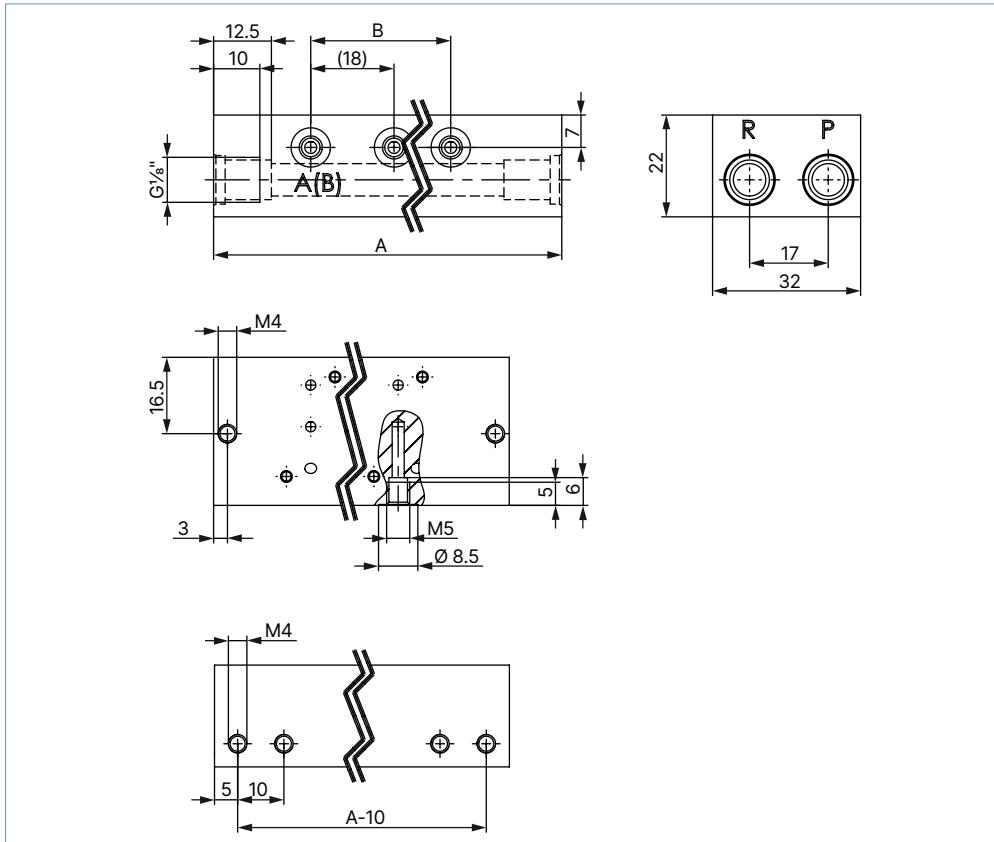
- Dimensions in mm
- Port connection G 1/8"
- Material PPS
- Pay attention to screw protrusion.
- Other versions are available on request.



| Manifold | A | B | n | Article no. |
|----------|-------|-------|----|-------------|
| 2-fold | 47.5 | 16.5 | 2 | 675628 |
| 3-fold | 64 | 33 | 3 | 675629 |
| 4-fold | 80.5 | 49.5 | 4 | 675630 |
| 5-fold | 97 | 66 | 5 | 675631 |
| 6-fold | 113.5 | 82.5 | 6 | 675632 |
| 7-fold | 130 | 99 | 7 | 675633 |
| 8-fold | 146.5 | 115.5 | 8 | 675634 |
| 9-fold | 163 | 132 | 9 | 675635 |
| 10-fold | 179.5 | 148.5 | 10 | 675636 |

Multiple manifolds for Burkert sub-base interface, 3-way
Note:

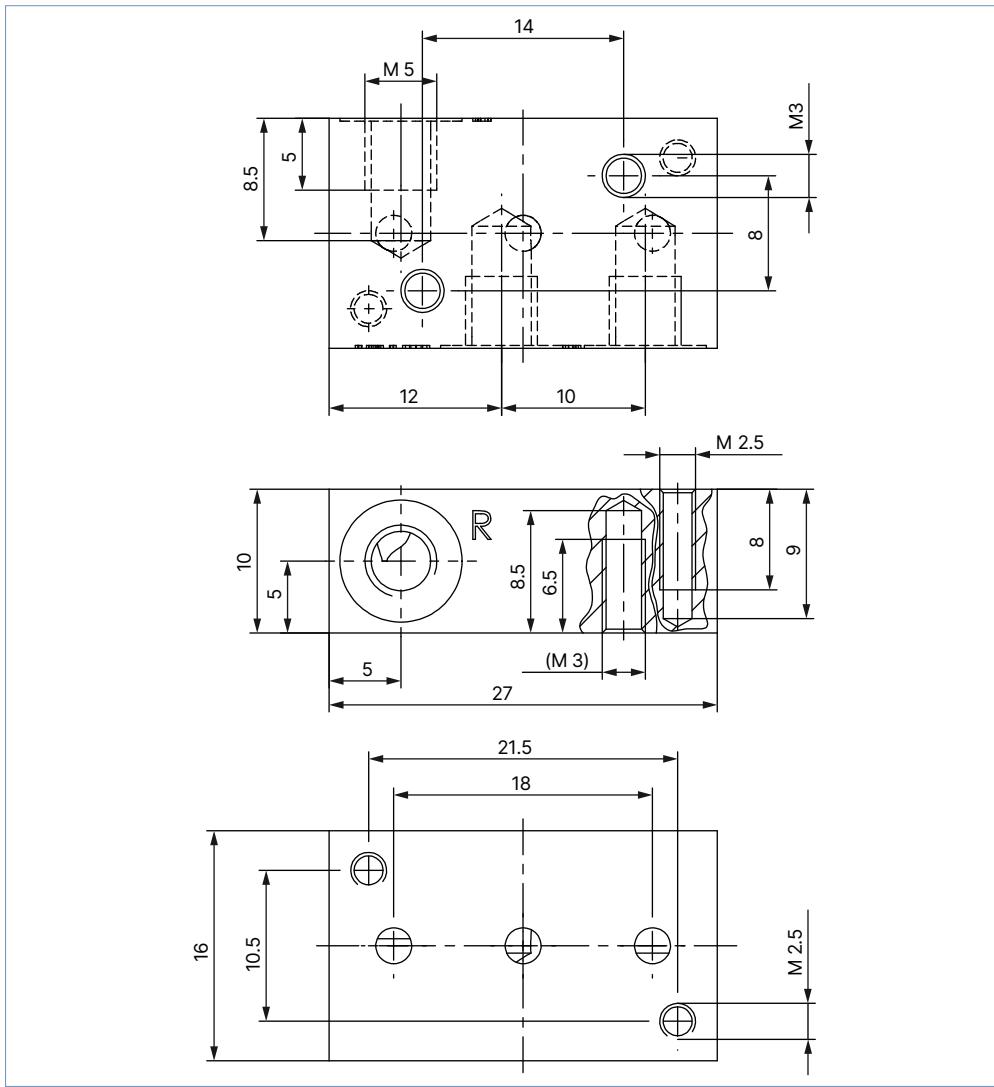
- Dimensions in mm
- Port connection 1: G 1/8"
- Port connection 2: M5
- Material aluminium (black anodized)
- Pay attention to screw protrusion.
- Other versions are available on request.



| Manifold | A | B | n | Article no. |
|----------|-----|-----|----|-------------|
| 2-fold | 63 | 18 | 2 | 658695 ☰ |
| 3-fold | 81 | 36 | 3 | 658696 ☰ |
| 4-fold | 99 | 54 | 4 | 658697 ☰ |
| 5-fold | 117 | 72 | 5 | 658698 ☰ |
| 6-fold | 135 | 90 | 6 | 658699 ☰ |
| 8-fold | 171 | 126 | 8 | 658700 ☰ |
| 10-fold | 207 | 162 | 10 | 658701 ☰ |
| 12-fold | 243 | 198 | 12 | 658703 ☰ |

Single manifolds for Burkert sub-base interface, 3-way
Note:

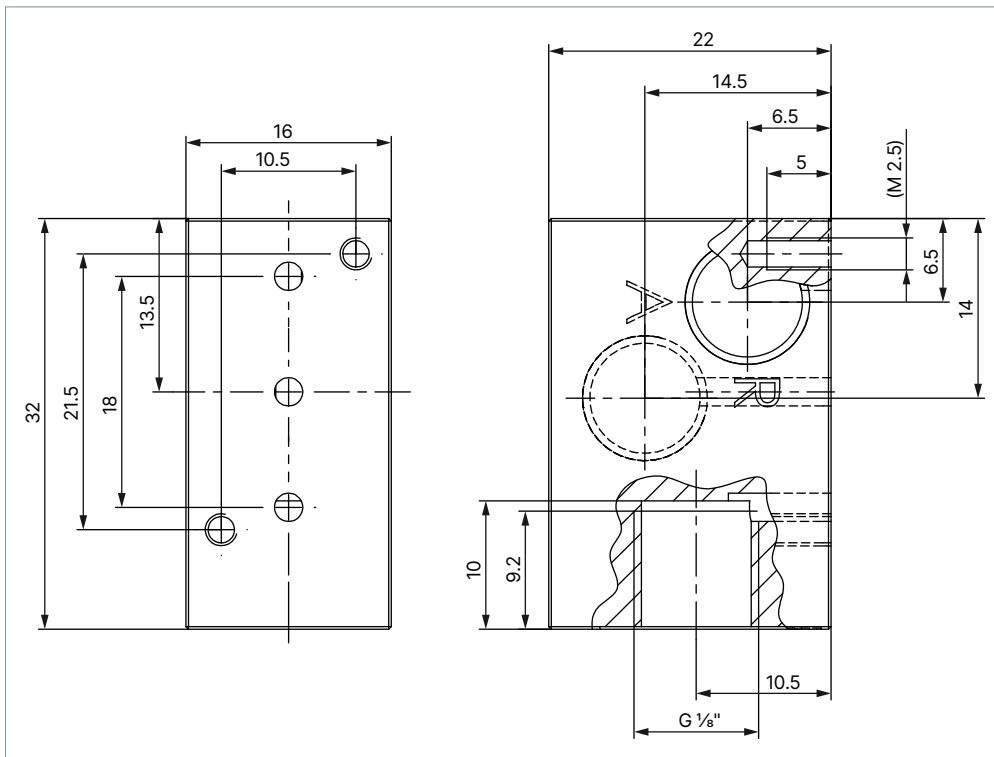
- Dimensions in mm
- Port connection M5
- Material aluminium (black anodized)
- Pay attention to screw protrusion.
- Other versions are available on request.



| Manifold | Article no. |
|----------|-------------|
| 1-fold | 623873 |

Note:

- Dimensions in mm
- Port connection G 1/8"
- Material aluminium (black anodized)
- Pay attention to screw protrusion.
- Other versions are available on request.



| Manifold | Article no. |
|----------|-------------|
| 1-fold | 634917 |