





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 Bürkert 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	Detailed information can be found in chapter "4. Dimensions" on page 6.
Materials	
Seal	FKM, EPDM
Fluid housing	PPS
Internal volume	Sub-base: starting at 44 µl < 10 µl available on request Detailed information can be found in chapter "1.4. Internal volume" on page 4.
Orifice	DN 0.8...DN 1.6
Circuit function	Detailed information can be found in chapter "2. Circuit functions" on page 5.
Performance data	
Switching time ^{1.)}	Open: ca. 25 ms (Pressure rise 0...10%) Closing: ca. 25 ms (Pressure drop 100...90%)
Electrical data	
Operating voltage	12/24 V DC, (other voltages on request)
Duty cycle	100 % continuous rating Manifold mounting: If media 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 "3.1. Chemical Resistance Chart – Bürkert resistApp" on page 5)
Medium temperature (max.)	- 10...55 °C Detailed 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.)}	Tag connectors 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 certificates	
Protection class	IP65 with flying leads or cable plug Type 2516 ▶ IP30 with Rectangular plug Type 2505 ▶
Environment and installation	
Installation	As required, preferably with actuator upright
Ambient temperature (max.)	55 °C

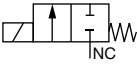
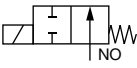
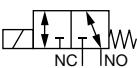
1.) Measurement at 2 bar and +20 °C at the valve outlet acc. to DIN ISO 12238:2001

2.) Other electric connectors and other cable lengths upon request.

1.2. Medium pressure

Note:

- Pressure data: Overpressure to atmospheric pressure
- Different pressure ranges available on request
- For low dead volume versions, the back pressure is limited to a maximum of 1 bar.

Circuit functions	Orifice	Port connection	Max. differential pressure
	[mm]		[bar]
A, solenoid valve 2/2 way Direct-acting Normally closed 	0.8	Sub-base	0...6
	1.2	Sub-base	0...5
	1.6	Sub-base	0...3
B, solenoid valve 2/2 way Direct-acting Normally opened 	0.8	Sub-base	0...6
	1.2	Sub-base	0...5
	1.6	Sub-base	0...3
T, solenoid valve 3/2 way Direct-acting Flow direction optional Universal 	0.8	Sub-base	0...6
	1.2	Sub-base	0...5
	1.6	Sub-base	0...3

1.3. Medium temperature

Note:

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

Description	Orifice	Seal material	Temperature range
Media temperature	DN0.8	FKM	0... +50 °C
	DN0.8	EPDM	-5... +50 °C
	DN1.2 and 1.6	FKM	+5... +50 °C
	DN1.2 and 1.6	EPDM	0... +50 °C
Media temperature with limitation on switching time and life expectancy	DN0.8	FKM	-5... +55 °C
	DN0.8	EPDM	-10... +50 °C
	DN1.2 and 1.6 ^{1.)}	FKM	0... +55 °C
	DN1.2 and 1.6	EPDM	-5... +50 °C

1.) Up to -15 °C available on request

1.4. Internal volume

Note:

The internal volume is depending on fluid housing.

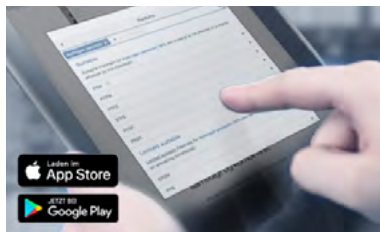
Body	2-way (low dead volume)		2-way		3-way	
	Fluid chamber	Total	Fluid chamber	Total	Fluid chamber	Total
Sub-base	44 µl	54 µl	97 µl	106 µl	90 µl	106 µl

2. Circuit functions

Circuit functions	Description
	Type: A, solenoid valve 2/2 way Direct-acting Normally closed
	Type: B, solenoid valve 2/2 way Direct-acting Normally open
	Type: T, solenoid valve 3/2 way Direct-acting Flow direction optional Universal

3. Materials

3.1. Chemical Resistance Chart – Bürkert resistApp

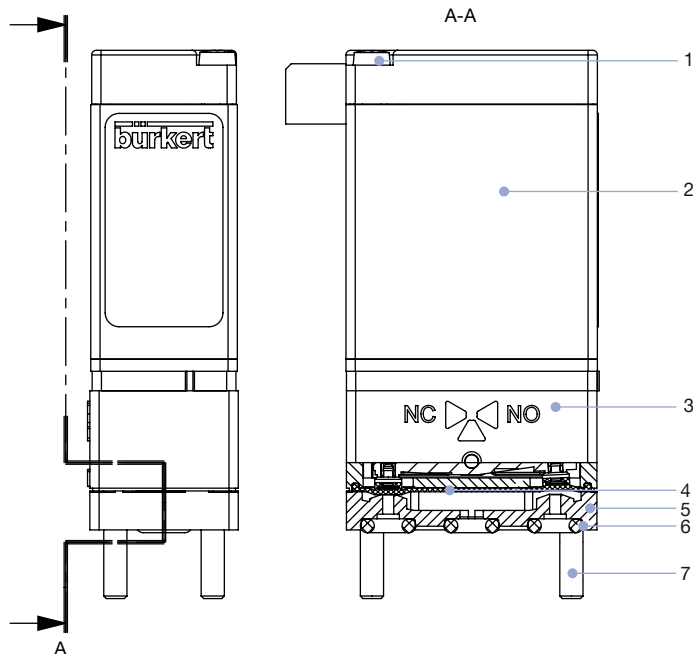


Bürkert resistApp – Chemical Resistance Chart

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](#)

3.2. Material specifications



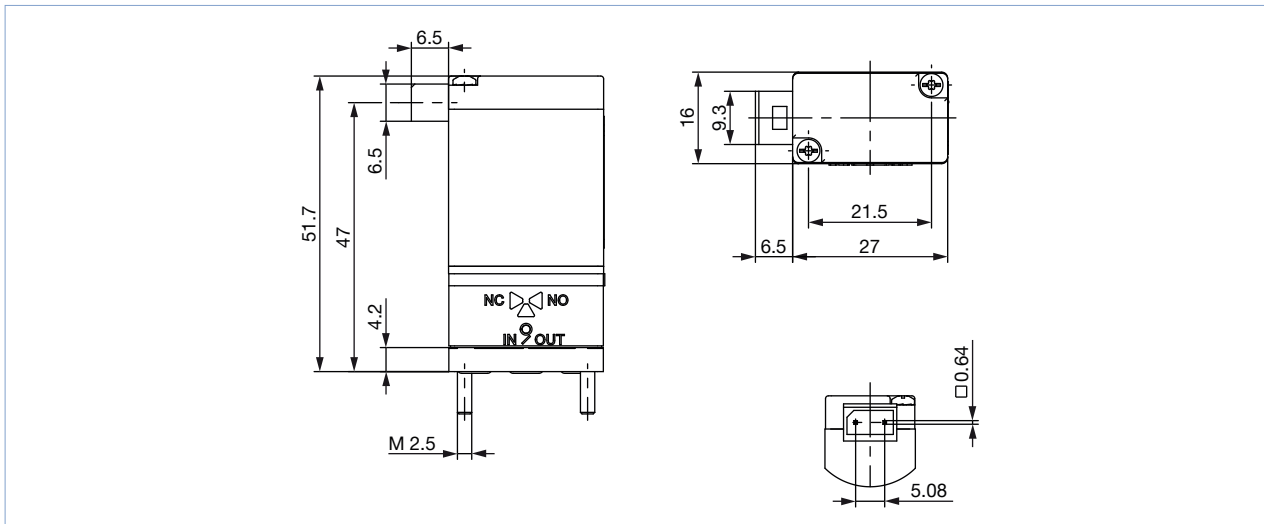
No.	Element	Material
1	Rounded head screw M2	Stainless steel
2	Coil	Epoxy
3	Actuator housing	PPS
4	Diaphragm (medium contact)	FKM, EPDM
5	Fluid housing (medium contact)	PPS
6	Flange seal (medium contact)	FKM, EPDM
7	Rounded head screw M2.5	Stainless steel

4. Dimensions

4.1. Sub-base version with rectangular plug Type 2505

Note:

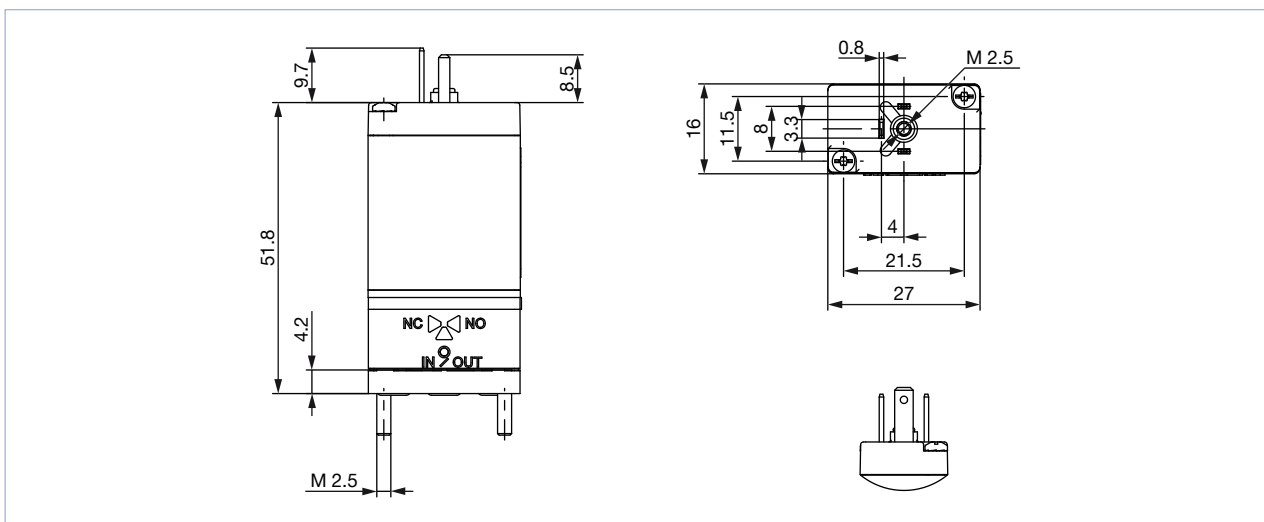
- Dimensions in mm
- Other screw length on request
- Self-tapping screws on request



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

Note:

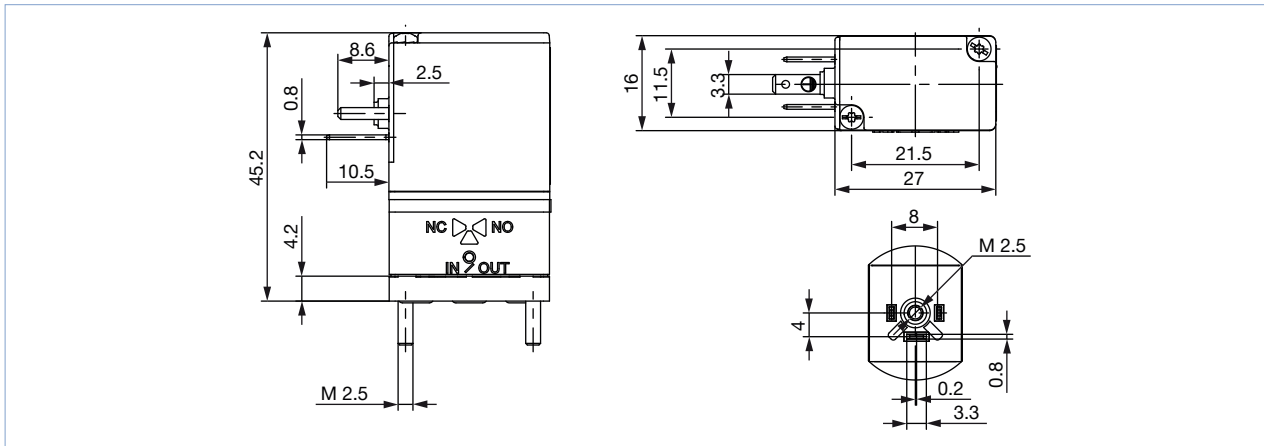
- Dimensions in mm
- Other screw length on request
- Self-tapping screws on request



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

Note:

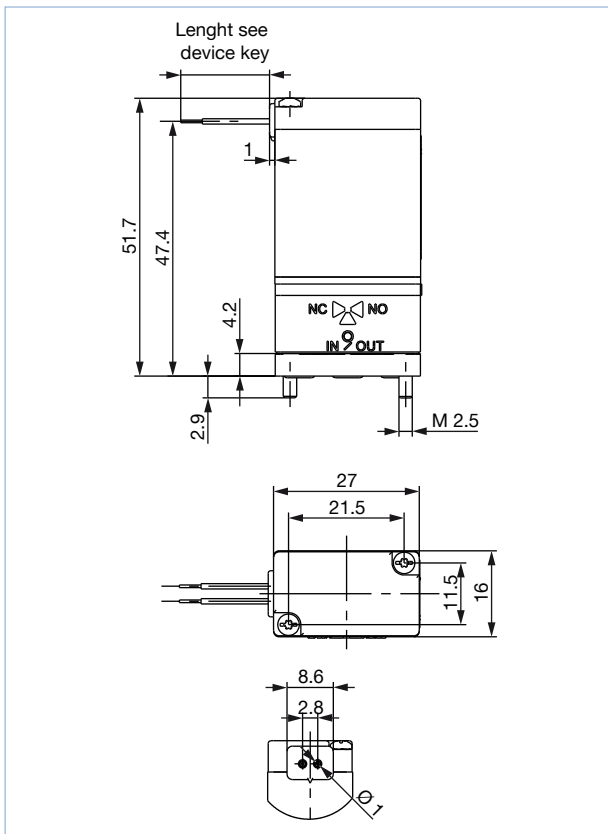
- Dimensions in mm
- Other screw length on request
- Self-tapping screws on request



4.4. Sub-base version with flying leads

Note:

- Dimensions in mm
- Other screw length on request
- Self-tapping screws on request



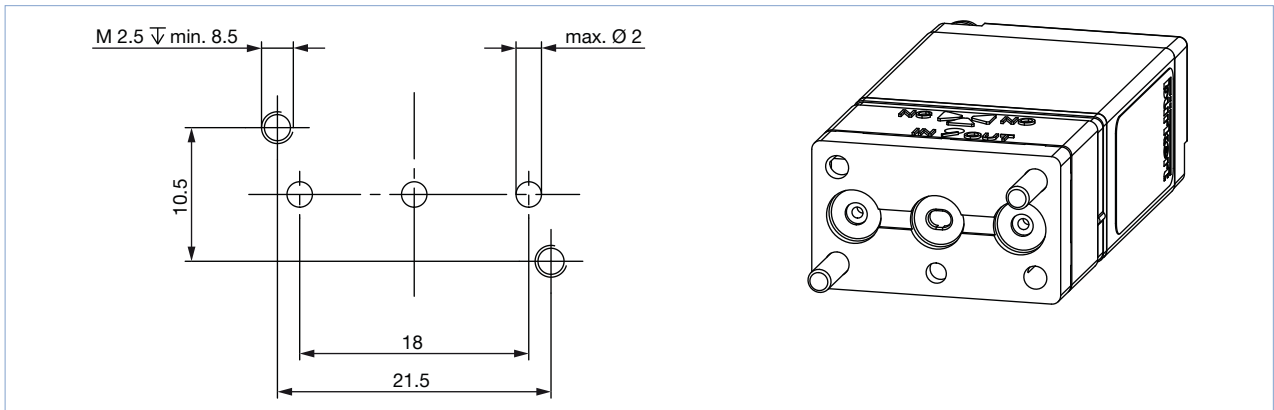
Classification of fluid connections
WWA (circuit function: Type A) 2/2 way Direct-acting Normally closed
WWB (circuit function: Type B) 2/2 way Direct-acting Normally opened
WWT (circuit function: Type T) Direct-acting Flow direction optional Universal
See chapter "2. Circuit functions" on page 5

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Bürkert sub-base interface 3-way standard

Note:

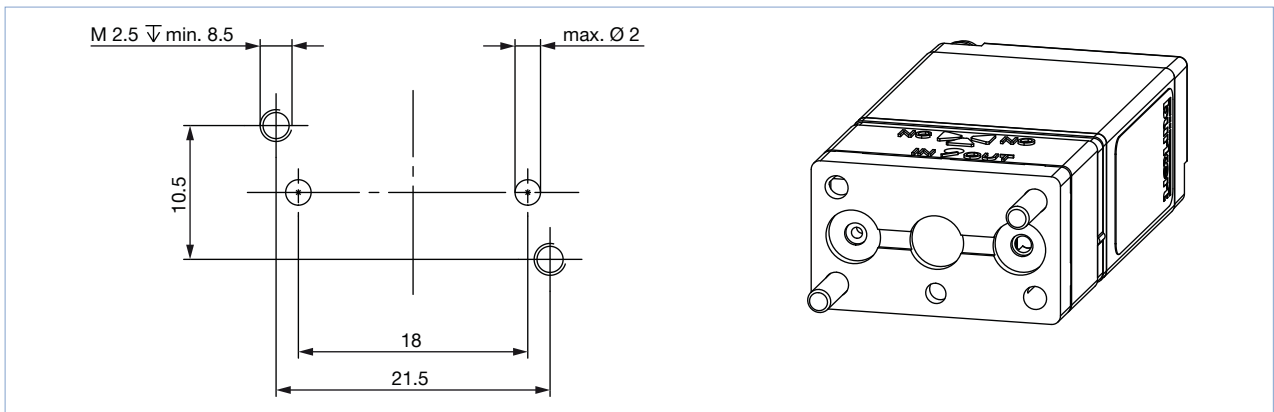
Dimensions in mm



Bürkert sub-base interface 2-way standard

Note:

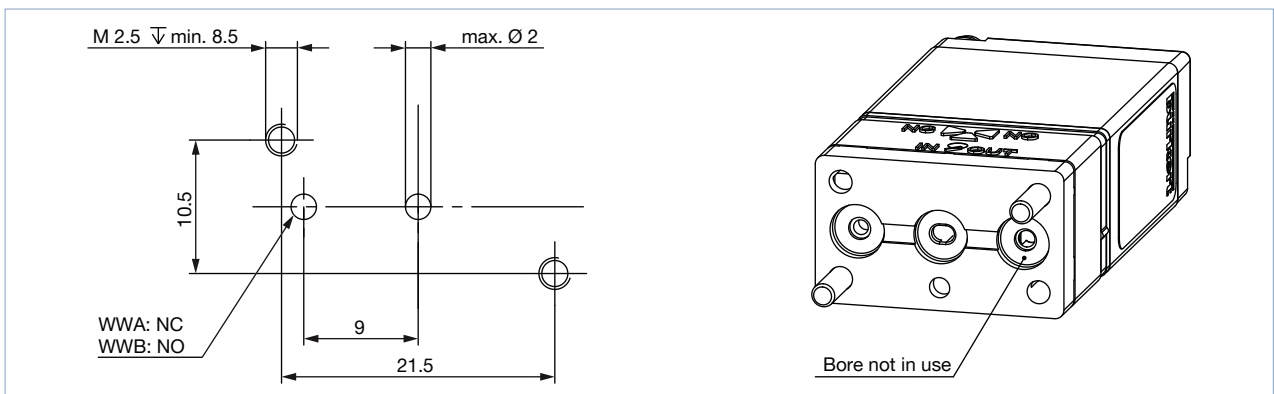
Dimensions in mm



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


Note:

- Dimensions in mm
- Available on request



5. Ordering information

5.1. Bürkert eShop – Easy ordering and quick delivery




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](#)

5.2. Bürkert product filter



Bürkert product filter – Get quickly to the right product


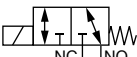
You want to select products comfortably based on your technical requirements? Use the Bürkert product filter and find suitable articles for your application quickly and easily.

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5.3. Ordering chart

Note:

- Pressure data: Overpressure to atmospheric pressure
- Different pressure ranges available on request
- 2 x M2.5 fixing screws for sub-base versions are included in the delivery.
- Connectors for rectangular plugs and cable plugs are not included in the delivery and must be ordered separately, see **“5.4. Ordering chart accessories” on page 10.**

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]	[bar]					
A, solenoid valve 2/2 way Direct-acting Normally closed 	Sub-base	0.8	16	0.015	0.017	12/DC	0...6	PPS	FKM	Tag connector to side	139151	
						24/DC				139088		
						24/DC				Rectangular plug	139236	
						12/DC				EPDM	Tag connector to side	139154
						24/DC					139155	
T, solenoid valve 3/2 way Direct-acting Flow direction optional Universal 	Sub-base	0.8	16	0.015	0.017	12/DC	0...6	PPS	FKM	Tag connector to side	139158	
						24/DC				139159		
						24/DC				Rectangular plug	139237	
						12/DC				EPDM	Tag connector to side	139162
						24/DC					139163	

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5.4. Ordering chart accessories

Rectangular cable plug Type 2505

Note:

For further versions see data sheet [Type 2505](#) ▶.

Accessories	Description	Article no.
	Rectangular cable plug Type 2505 with 3 m cable	252572
	Rectangular cable plug Type 2505 with 5 m cable	255194
	Rectangular cable plug Type 2505 with 300 mm flying leads	644068
	Rectangular cable plug Type 2505 with 600 mm flying leads	162144

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

Note:

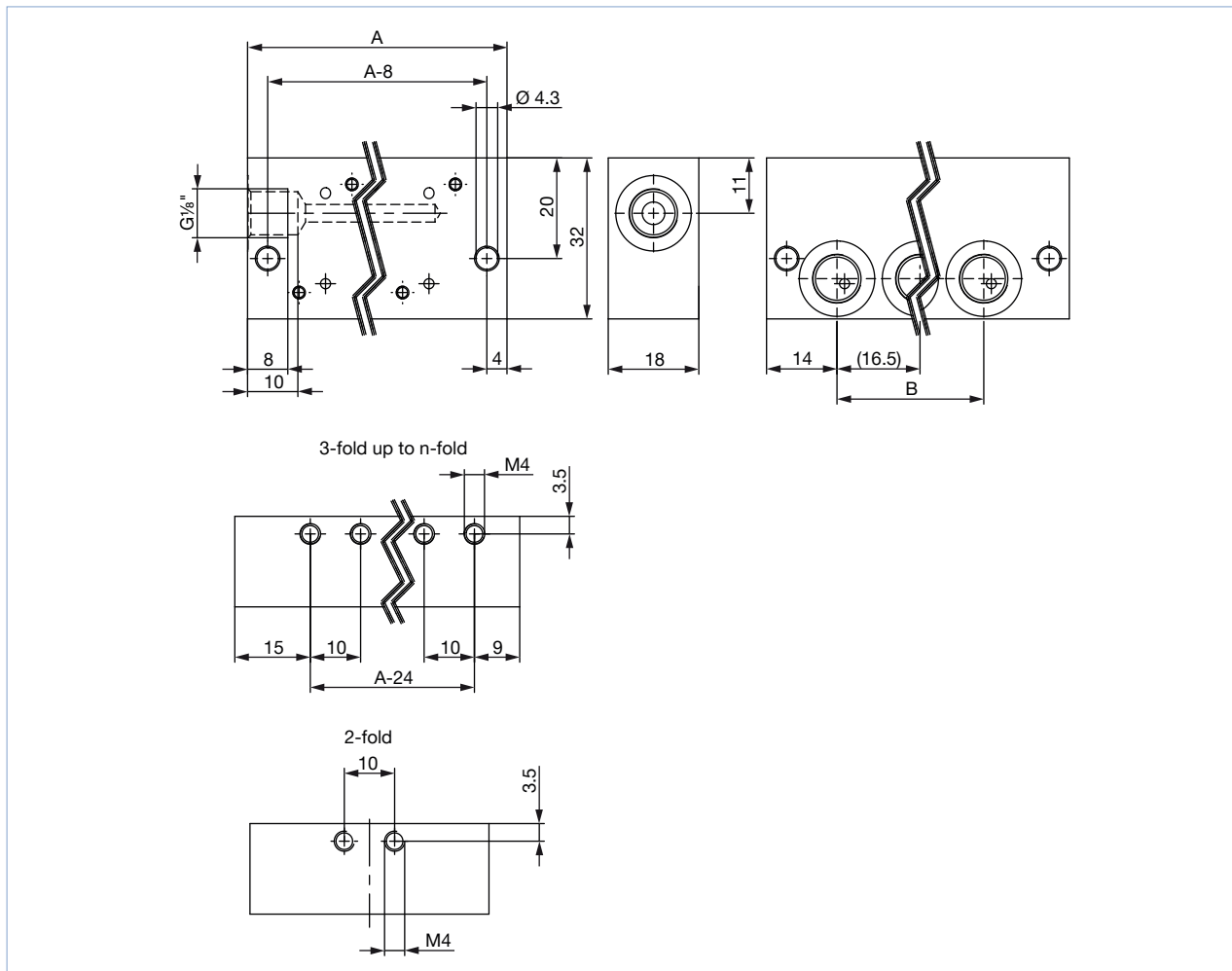
- Delivery of cable plug includes a flat seal and a fixing screw.
- For further versions see data sheet [Type 2516](#) ▶.

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

Multiple manifolds for Bürkert sub-base interface 2-way

Note:

- Dimensions in mm
- Port connection G 1/8"
- Material PPS
- Consider the screw protrusion!
- Further versions on request



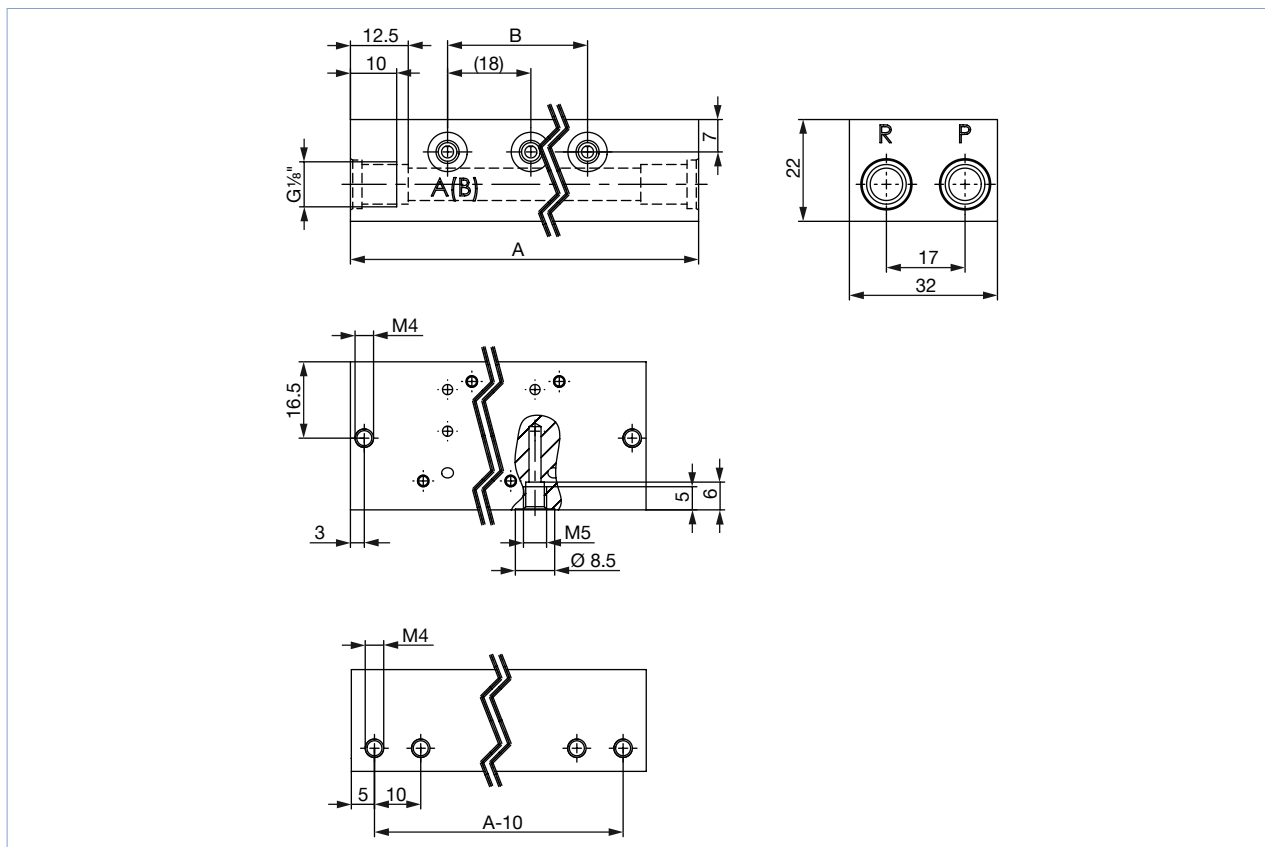
Manifold	A	B	n	Article no.
2-fold	47.5	16.5	2	675628
3-fold	64	33	3	675629
4-fold	80.5	49.5	4	675630
5-fold	97	66	5	675631
6-fold	113.5	82.5	6	675632
7-fold	130	99	7	675633
8-fold	146.5	115.5	8	675634
9-fold	163	132	9	675635
10-fold	179.5	148.5	10	675636

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Multiple manifolds for Bürkert sub-base interface 3-way

Note:

- Dimensions in mm
- Port connection 1: G 1/8"
- Port connection 2: M5
- Material aluminium (black anodized)
- Consider the screw protrusion!
- Further versions on request



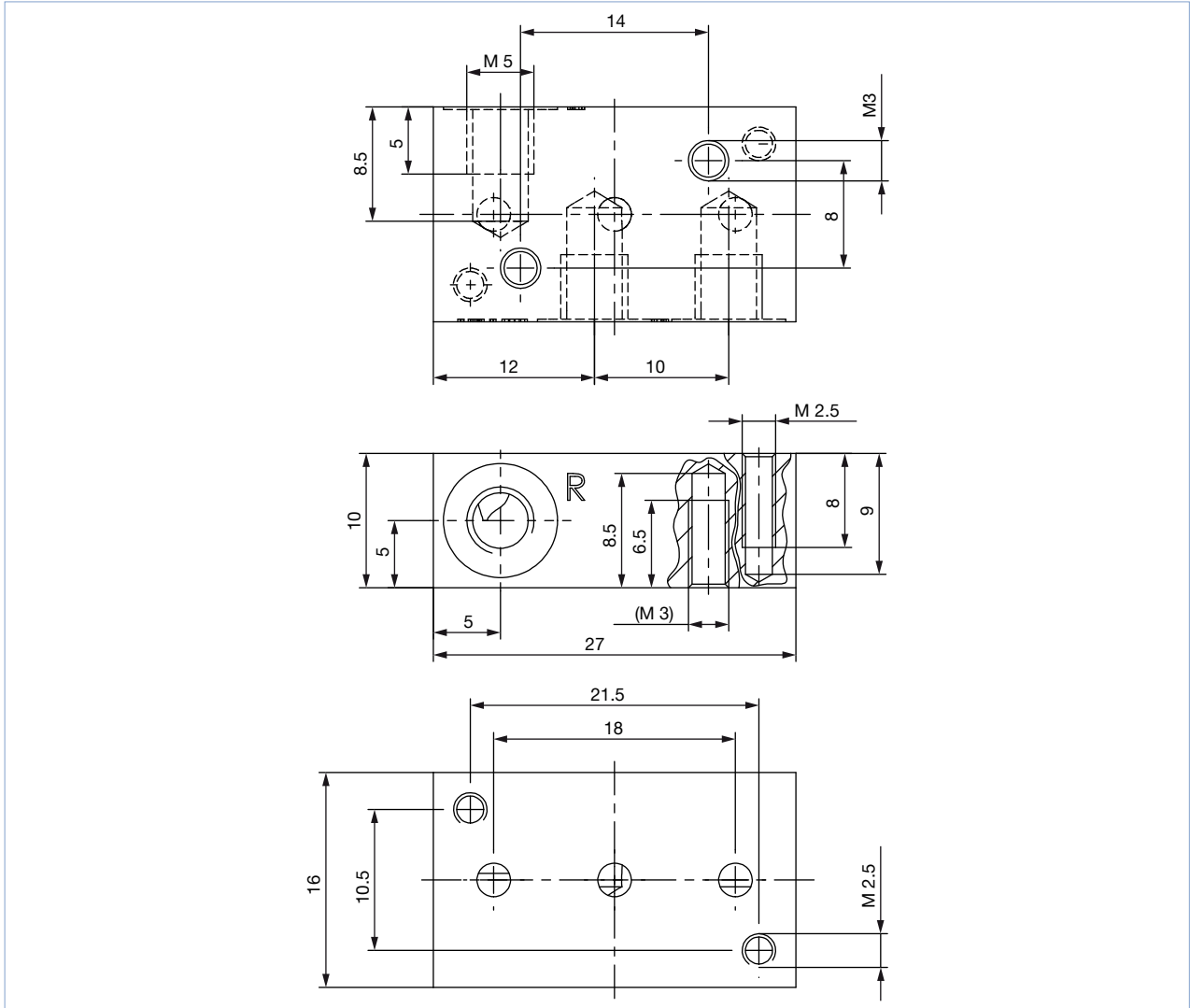
Manifold	A	B	n	Article no.
2-fold	63	18	2	658695
3-fold	81	36	3	658696
4-fold	99	54	4	658697
5-fold	117	72	5	658698
6-fold	135	90	6	658699
8-fold	171	126	8	658700
10-fold	207	162	10	658701
12-fold	243	198	12	658703

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Single manifolds for Bürkert sub-base interface 3-way

Note:

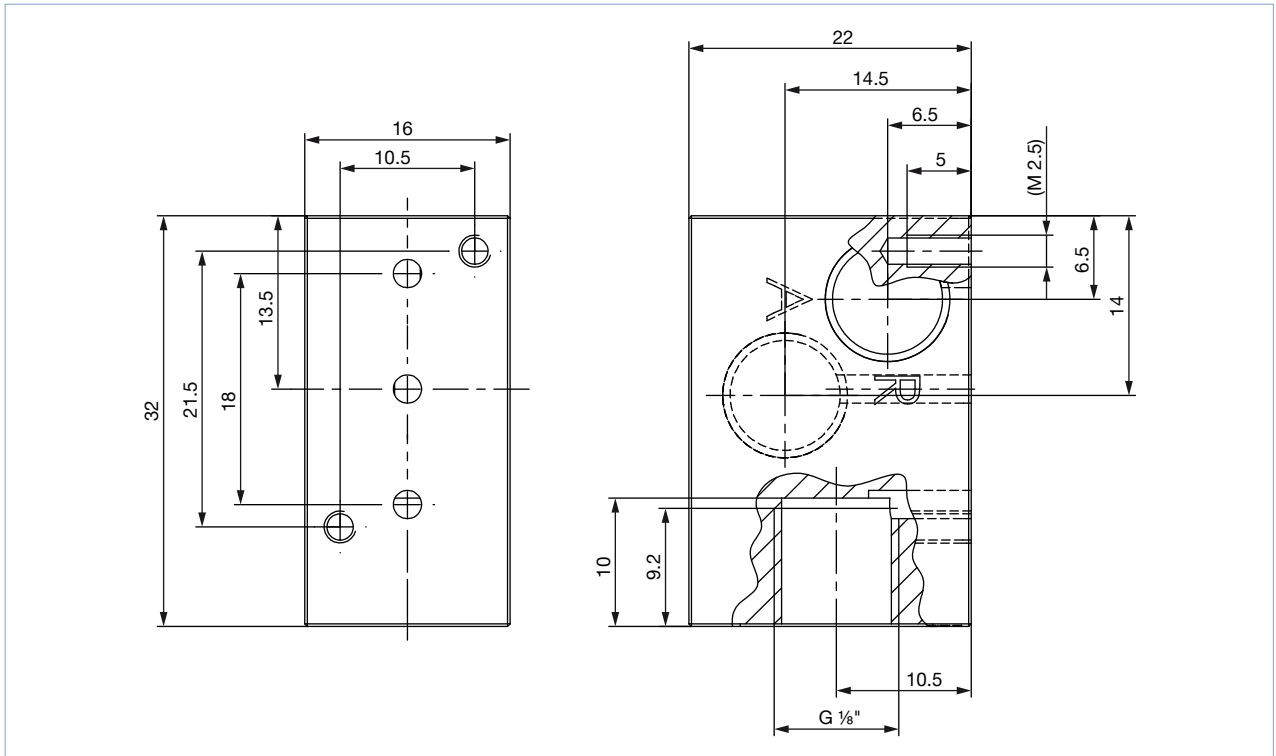
- Dimensions in mm
- Port connection M5
- Material aluminium (black anodized)
- Consider the screw protrusion!
- Further versions on request



Manifold	Article no.
1-fold	623873

Note:

- Dimensions in mm
- Port connection G 1/8"
- Material aluminium (black anodized)
- Consider the screw protrusion!
- Further versions on request



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