



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

- 22 mm ultra compact design with orifices up to DN 3.0
- Isolating diaphragm for high chemical resistance
- USP Chapter 87/88 Class VI
- Back pressure tightness via rocker principle
- Minimal internal volume with excellent cleanability



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

Can be combined with

	Type 2505 10 mm socket for Bürkert small solenoid valves
	Type 2507 Cable plug, form B according to industry standard

Type description

Direct acting medium separated 2/2 and 3/2 way Rocker Solenoid Valve for control of aggressive fluids and gases in analytical medical applications, the food industry, and also the chemical industry for dosing, filling, mixing and distribution. The medium is in contact with fluid housing and seal material solely through the isolating diaphragm. This valve with the new TwinPower actuator, robust screw-in connection and 22 mm installation width, will fulfil the highest requirements. The established rocker solenoid technology is characterized through full back pressure tightness, good rinsing capability and low internal volume. Type 6628 is available in different technical variants and by virtue of several body options, it offers a perfect adaption in fluid applications.

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1. General technical data

Product properties	
Dimensions	Further information can be found in chapter "6. Dimensions" on page 7.
Material	
Seal	FFKM, FKM or EPDM
Fluidic housing	PEEK, PPS or PVDF (PP on request)
Manual override	On request
Internal volume	Bürkert sub-base: from 280 µl Hose connector: from 500 µl Threaded body: from 500 µl
Minimum bending radius for flying leads variant	Single bending: 5 mm Multiple bending: 8 mm
Orifice	DN 2.0 (Vac...5 bar) DN 3.0 (Vac...3 bar)
Circuit function	A, B and T Further information can be found in chapter "3. Circuit functions" on page 4.
Performance data	
Switching time ^{2.)}	Opening: approx. 25 ms (pressure build-up 0...10 %) Closing: approx. 25 ms (pressure reduction 100...90 %)
Electrical data	
Power supply	12 V DC, 24 V DC (other voltages on request)
Duty cycle	100 % continuous operation
Nominal power	5 W (other powers on request & variants with internal power reduction possible)
Voltage tolerance ^{1.)}	± 10 %
Medium data	
Operating medium	Resistant to neutral and aggressive liquids and gases (see chapter "5.1. Bürkert resistApp" on page 6)
Medium temperature	FKM: 0 °C...+ 55 °C FFKM: + 10 °C...+ 55 °C EPDM: - 10 °C...+ 55 °C
Viscosity	Max. 21 mm ² /s
Process/Port connection and communication	
Electrical connection	PFA single flying leads 0.5 mm ² (AWG20), length 500 mm Tag connectors according to DIN 43650 form B for cable plug Type 2507 ▶ Rectangular cable plug Type 2505 ▶
Port connection	Bürkert sub-base (22 × 35 mm) G 1/8" NPT 1/8" Hose connector 4 mm (5/32") Push-in connector (tube's external diameter 6 mm)
Approvals and conformities	
Degree of protection	IP54 with cable or cable plug Type 2507 ▶ IP30 with rectangular cable plug Type 2505 ▶
Foods and beverages/Hygiene	FDA on request only with seal material EPDM USP Chapter 87/88 Class VI on request only with body material PPS/PEEK and seal material EPDM Further information can be found in chapter "4.4. Foods and beverages/Hygiene" on page 5.
Environment and installation	
Installation	As required, preferably with actuator upright
Ambient temperature	FKM: 0 °C...+ 55 °C FFKM: + 10 °C...+ 55 °C EPDM: - 10 °C...+ 55 °C

1.) Maximum permitted residual ripple

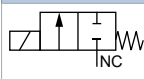
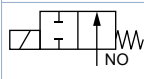
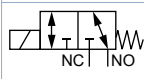
2.) Measurement at + 20 °C, 2 bar at the valve outlet according to DIN ISO 12238:2001

2. Product variants

Rectangular plug with manual override and Bürkert sub-base	Flying leads with threaded body
	
Rectangular plug with 2-way hose connector	Flying leads with push-in connector
	

3. Circuit functions

Note:
Other circuit functions on request.

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

4. Approvals and conformities

4.1. General notes

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

4.2. Conformity

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

4.3. 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.

4.4. 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.
USP	United States Pharmacopeial Convention (USP) (valid for the variable code PL04) All wetted materials are biocompatible according to the manufacturer's declaration.

5. Materials

5.1. Bürkert resistApp

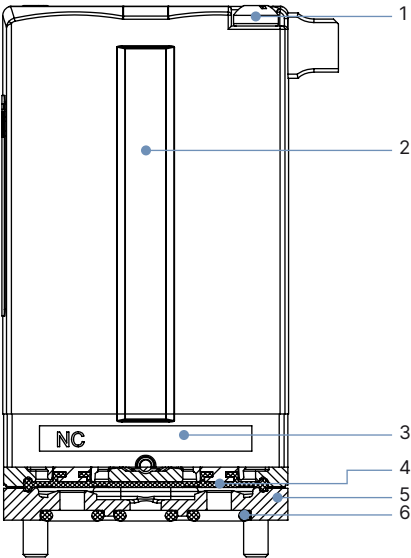


Bürkert resistApp – Chemical resistance chart

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](#)

5.2. Material specifications



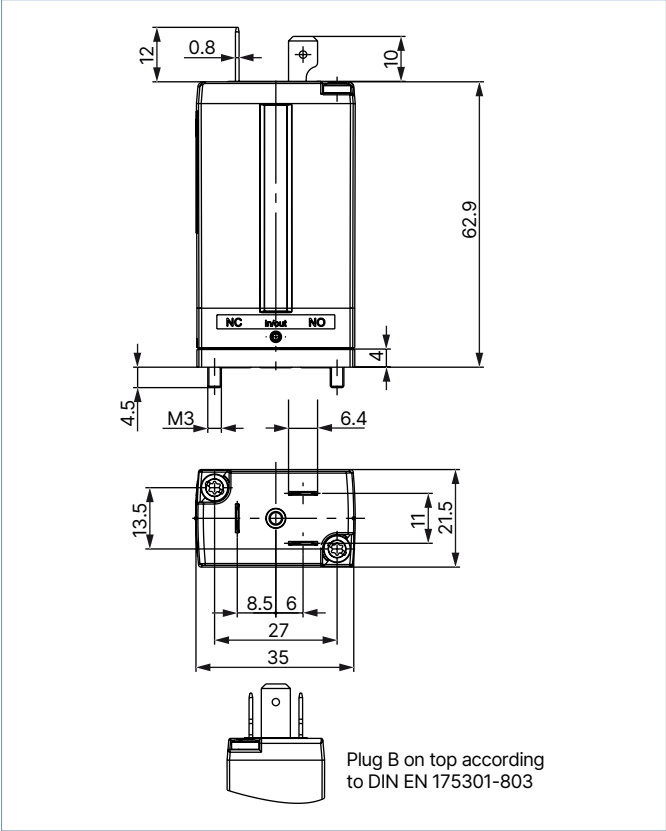
No.	Element	Material
1	Fixing screw M3 (from end to end)	Stainless steel
2	Coil	Epoxy
3	Valve body	PPS
4	Diaphragm ^{1.)}	FFKM, FKM or EPDM
5	Fluidic housing ^{1.)}	PEEK, PPS or PVDF
6	Sub-base seal ^{1.)}	FFKM, FKM or EPDM

1.) in contact with medium

6. Dimensions

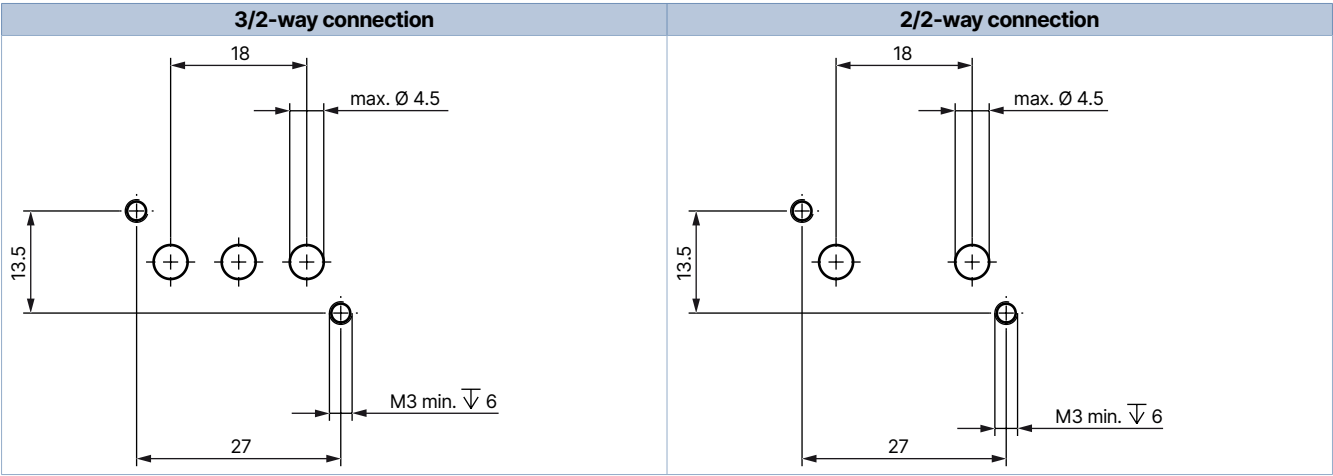
6.1. Sub-base variant with connector plug form B

Note:
Dimensions in mm



6.2. Bürkert sub-base interface (22 × 35 mm)

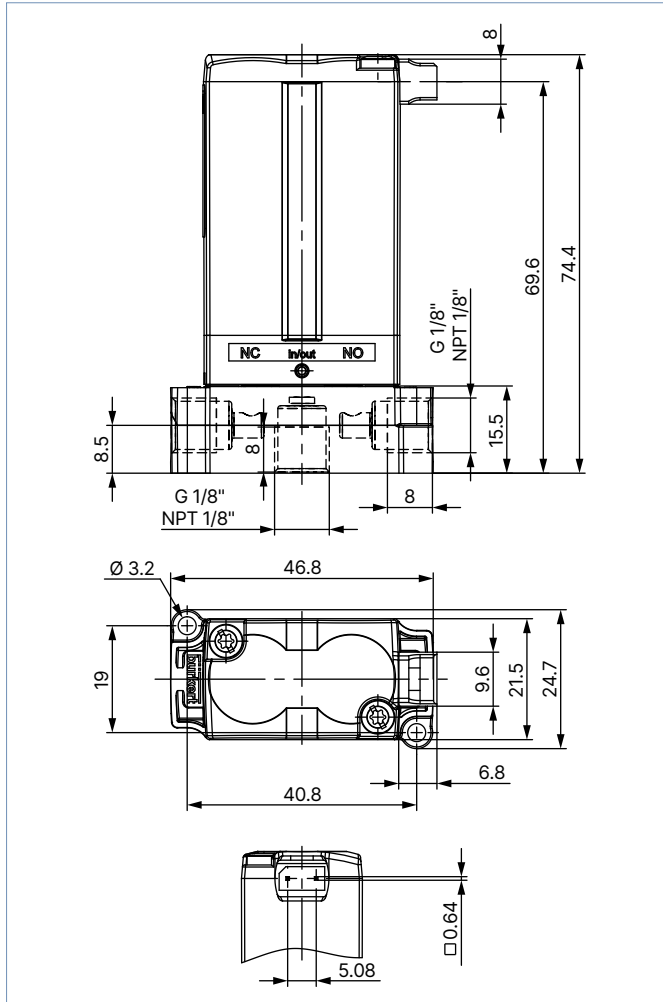
Note:
Dimensions in mm



6.3. Threaded variant with rectangular plug Type 2505

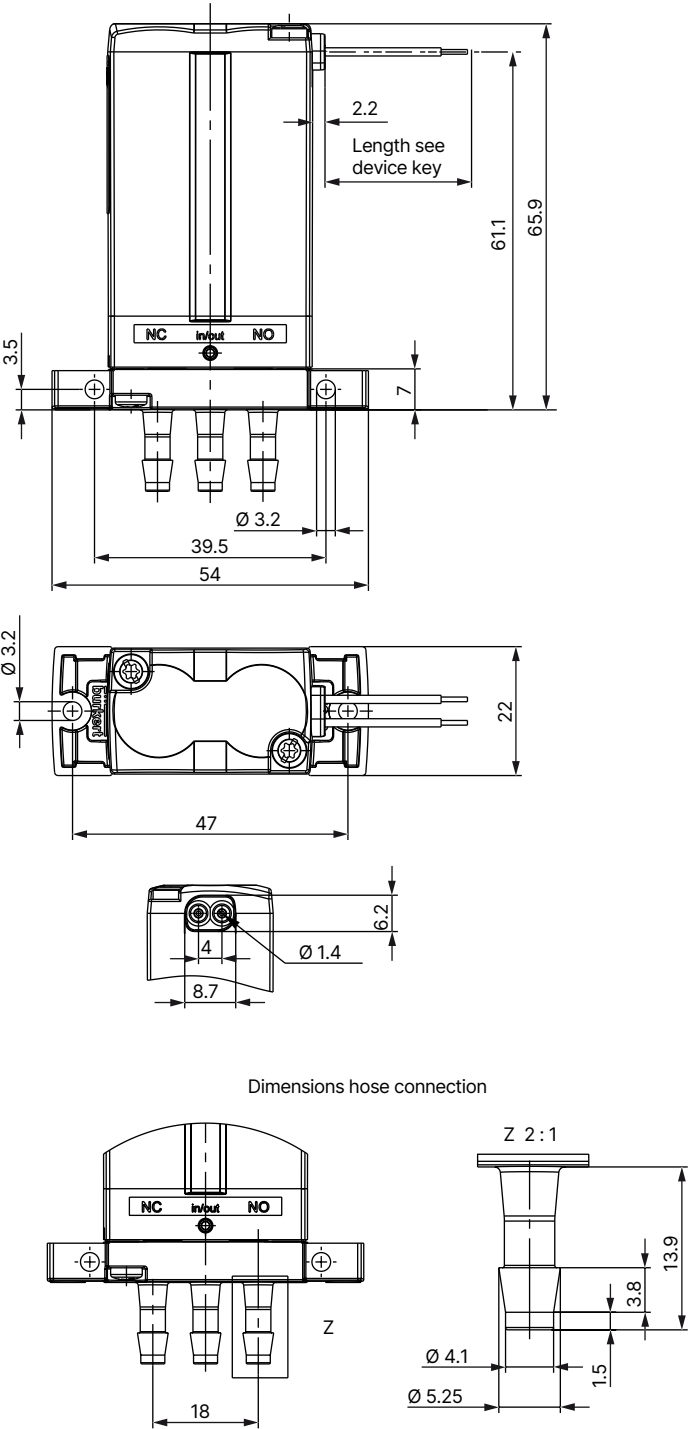
Note:

Dimensions in mm



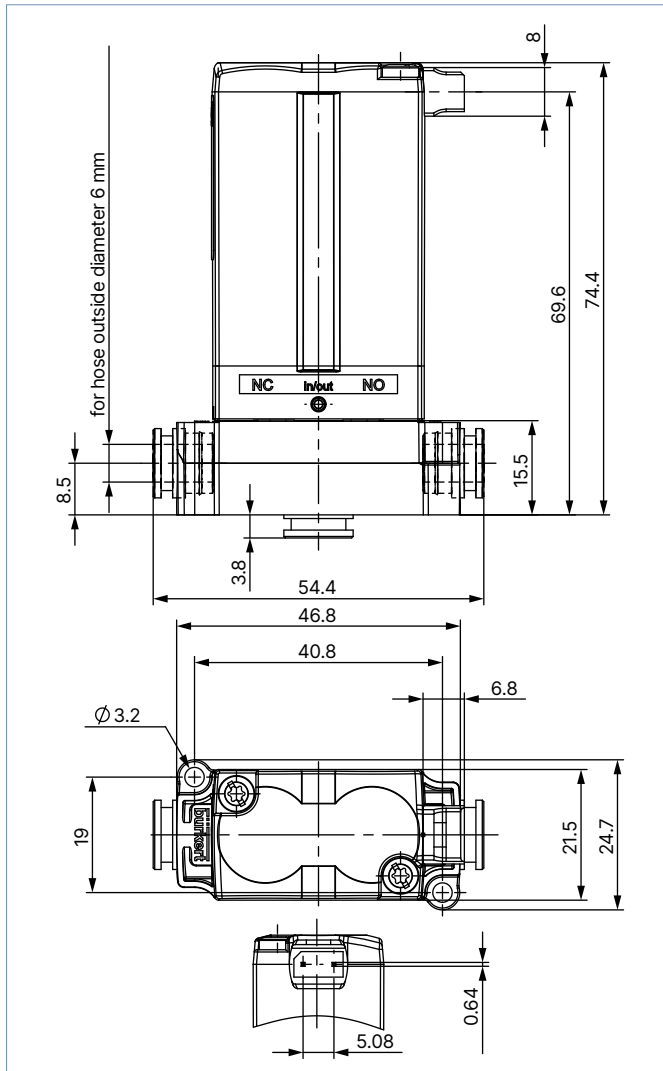
6.4. Tube connector variant with flying leads

Note:
Dimensions in mm



Note:

DTS 1000170656 EN Version: L Status: RL (released | freigegeben | valide) printed: 28.04.2025



7. Ordering information

7.1. 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](#)

7.2. 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](#)

7.3. 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.

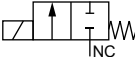
[Fill out the form now](#)

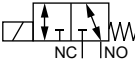
7.4. Ordering chart

Standard variant

Note:

- 2 x fixing screws M3 × 65 for sub-base variants are included in the delivery.
- Connectors for rectangular plug and tag connector form B are not included in the delivery and must be ordered separately, see ["7.5. Ordering chart accessories" on page 15.](#)
- Other variants are available on request.

Circuit function	Port connection	Orifice	Q _{Nn} value air ^{1.)}	K _v value water ^{2.)}	Voltage/ Frequency	Pressure range	Max. pressure difference	Body material	Seal material	Electrical connection	Article no.
		[mm]	[l/min]	[m³/h]	[V/Hz]	[bar]	[bar]				
CF A 2/2-way solenoid valve Direct-acting Normally closed 	Bürkert sub-base	2	110	0.10	24/DC	Vac...5	5	PPS	EPDM	Flying leads, 0.5 m	251614 
										Rectangular plug	250857 
								PEEK	FFKM	Flying leads, 0.5 m	234350 
										Rectangular plug	235315 
								PPS	FKM	Flying leads, 0.5 m	251620 
	Rectangular plug	251618 									
	Bürkert sub-base	3	180	0.17	12/DC 24/DC	Vac...3	3	PPS	EPDM	Flying leads, 0.5 m	241727 
										Rectangular plug	242030 
								PEEK	FFKM	Rectangular plug	246199 
										Plug form B	251643 
										Flying leads, 0.5 m	235316 
										Rectangular plug	230304 
								PVDF	FFKM	Rectangular plug	235317 
										20104014 	
								PPS	FKM	Flying leads, 0.5 m	246382 
										Rectangular plug	251624 
										Plug form B	248017 
								PEEK	EPDM	Plug form B	238616 
										Flying leads, 0.5 m	300356 
										Plug form B	251644 
								FFKM	FFKM	Flying leads, 0.5 m	235319 
										Rectangular plug	242340 
										Plug form B	238615 
	PPS							FFKM	Flying leads, 0.5 m	251650 	
									Rectangular plug	251613 	
Plug form B									235318 		
FFKM	FFKM							Rectangular plug	251628 		
		Plug form B	251628 								
		Flying leads, 0.5 m	251628								

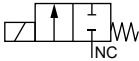
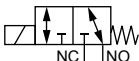
Circuit function	Port connection	Orifice	Q _{lin} value air ^{1.)}	K _v value water ^{2.)}	Voltage/ Frequency	Pressure range	Max. pressure difference	Body material	Seal material	Electrical connection	Article no.								
		[mm]	[l/min]	[m³/h]	[V/Hz]	[bar]	[bar]												
CF T 3/2-way solenoid valve Direct-acting Flow direction optional Universal 	Bürkert sub-base	2	110	0.10	24/DC	Vac...5	5	PPS	EPDM	Flying leads, 0.5 m	241889 								
										Rectangular plug	250859 								
								PEEK	FFKM	Flying leads, 0.5 m	234340 								
										Rectangular plug	235320 								
								PPS	FKM	Flying leads, 0.5 m	251630 								
										Rectangular plug	251629 								
	Bürkert sub-base	3	180	0.17	12/DC 24/DC	Vac...2	2	PPS	EPDM	Flying leads, 0.5 m	241726 								
										Rectangular plug	245256 								
										Plug form B	251645 								
					12/DC 24/DC			PEEK	FFKM	Flying leads, 0.5 m	235321 								
										Rectangular plug	230305 								
											235322 								
					12/DC 24/DC			PVDF	FKM		20104015 								
										Flying leads, 0.5 m	251633 								
										Rectangular plug	251635 								
								PPS	FKM	Flying leads, 0.5 m	251634 								
										Rectangular plug	251684 								
										Plug form B									
								PEEK	EPDM	Flying leads, 0.5 m	245205 								
										Plug form B	251647 								
								FFKM FKM	FKM	Flying leads, 0.5 m	235325 								
											251638 								
	Plug form B									251649 									
	PPS							FKM	Flying leads, 0.5 m	251685 									
	G 1/8							PEEK	EPDM		251617 								
	Push-in connector							FFKM	FFKM		235323 								
	Hose connector							FKM	FKM		251637 								

1.) Measurement at + 20 °C, 6 bar at the valve inlet, 1 bar differential pressure

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

Variant with approvals and conformities
Note:

- All valves have a EPDM seal material.
- 2 x fixing screws M3 × 65 for sub-base variants are included in the delivery.
- Connectors for rectangular plug and tag connector form B are not included in the delivery and must be ordered separately, see **"7.5. Ordering chart accessories" on page 15.**
- Other variants are available on request.

Circuit function	Port connection	Orifice	Q _{Nn} value air ¹⁾	K _v value water ²⁾	Voltage/Frequency	Pressure range	Max. differential pressure	Body material	Electrical connection	Conformity	Article no.
		[mm]	[l/min]	[m³/h]	[V/Hz]	[bar]	[bar]				
CF A 2/2-way solenoid valve Direct-acting Normally closed 	Bürkert sub-base	3	180	0.17	24/DC	Vac...3	3	PPS	Flying leads, 0.5 m	USP	20113198 
										FDA	00324692 
	G 1/8	3	180	0.17	24/DC	Vac...3	3	PEEK	Flying leads, 0.5 m	USP	20113196 
										FDA	20113840 
CFT 3/2-way solenoid valve Direct-acting Flow direction optional Universal 	Bürkert sub-base	3	180	0.17	24/DC	Vac...2	2	PPS	Flying leads, 0.5 m	USP	20113199 
										FDA	20113842 
	G 1/8	3	180	0.17	24/DC	Vac...2	2	PEEK	Flying leads, 0.5 m	USP	20113197 
										FDA	20113841 
	G 1/8	3	180	0.17	24/DC	Vac...2	2	PEEK	Flying leads, 0.5 m	USP	20113201 
										FDA	00300357 

1.) Measurement at + 20 °C, 6 bar at the valve inlet, 1 bar differential pressure

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

Further variants on request

 Electrical connection • Cable plug according to DIN 43650 form B (Industrial standard) • Flying leads	 Material Other body and seal materials on request
 Approval Further information can be found in chapter "4. Approvals and conformities" on page 5.	

7.5. Ordering chart accessories

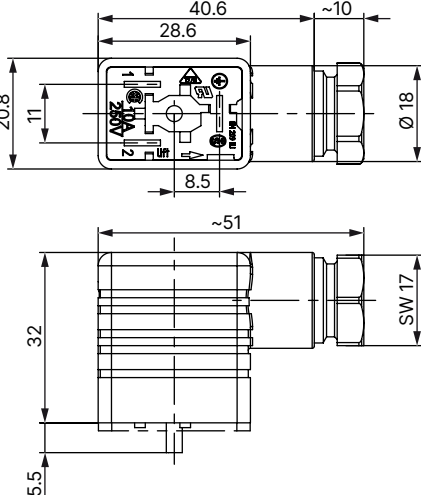
Rectangular cable plug Type 2505

Note:
For further variants 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)	252572 
	Cable plug 10 mm with cable, 2-pin, rectangular plug, straight, cable length: 5 m (Type 2505)	255194 
	Cable plug 10 mm with cable, 2-pin, rectangular plug, straight, cable length: 0,3 m (Type 2505)	644068 
	Cable plug 10 mm with cable, 2-pin, rectangular plug, straight, cable length: 0.6 m (Type 2505)	162144 
	Cable plug 10 mm, 2-pin, rectangular plug, straight (Type 2505)	644067 

Cable plug Type 2507, form B according to industry standard

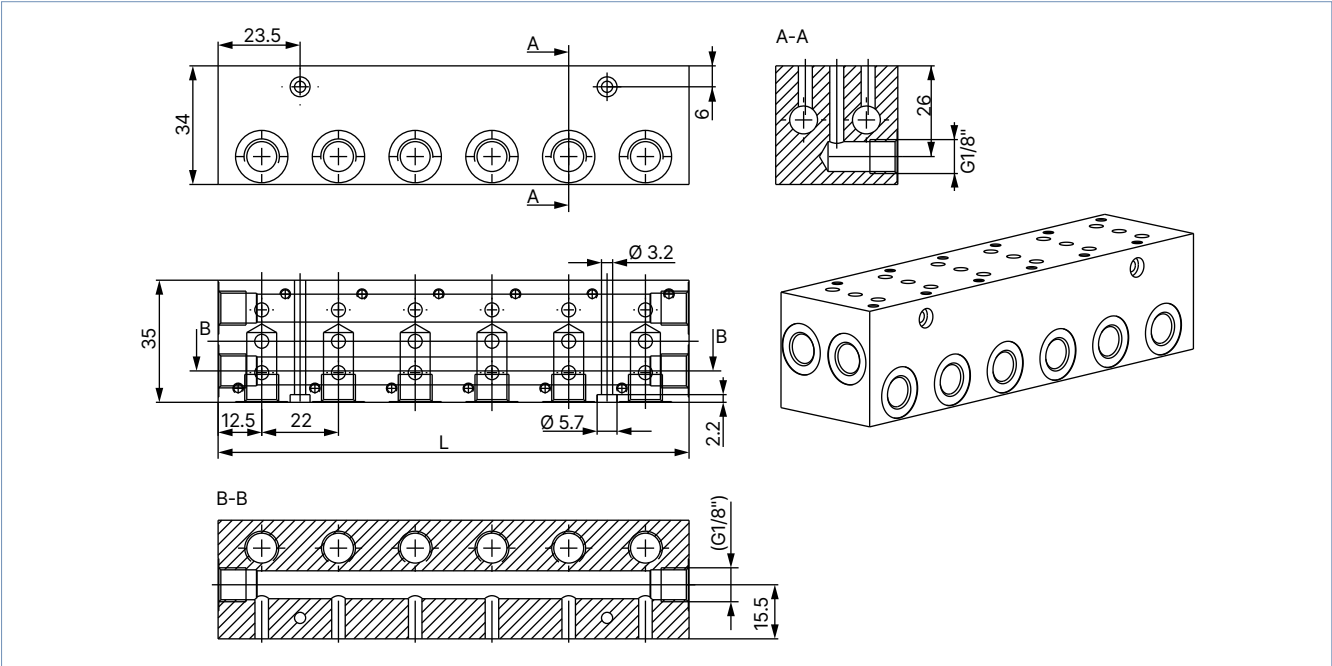
- Note:**
- Dimensions in mm
 - Delivery of cable plug includes a flat seal and a fixing screw.
 - Refer to data sheet **Type 2507** ▶ for more information about the cable plug.

Cable plug	Dimensions	Variant	Voltage	Article no.
		Without circuitry (standard)	2...250 V AC/DC	423845 
		With LED	24 V AC/DC	423849 
		With LED and free-wheeling diode	24 V AC/DC	423851 
		With rectifier, LED and varistor	24 V AC/DC	423853 

Multiple manifolds for Bürkert sub-base interface, 3-way

Note:

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



Manifold	L [mm]	Article no.
2-fold	47	669571 
3-fold	69	672633 
4-fold	91	669572 
5-fold	113	672661 
6-fold	135	669570 
10-fold	223	672660 