

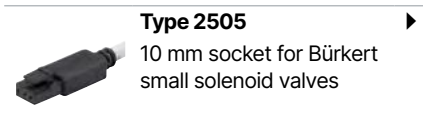


2/2 and 3/2 way Bürkert TwinPower rocker solenoid valve with separating diaphragm

- For highest chemical resistance requirements
- Ultra compact design due to Bürkert Twinpower actuator with 10.3 mm width
- DN 0.8 (5 bar) and DN 1.6 (2 bar)
- Integrated hit and hold electronic
- High back pressure tightness 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 description

Type 6624 combines the reliable and successful Rocker principle with a highly innovative new actuator. The Bürkert TwinPower concept of this actuator reduces the size greatly without loss in performance. Hence the 10 mm wide medium isolated rocker valve, 6624, with a 1.6 mm orifice and a pressure resistance of 2 bar, provides the same performance as a traditional 16 mm valve. In addition, the integrated power reduction decreases the energy consumption by 75 %. In combination with other design features the heat transfer into the medium can be reduced to a minimum. In the design of the 6624, the main benefits lie in its excellent cleanability and a high reliability. By using high performance materials the 6624 suits the handling of aggressive medium perfectly. The valve is available in a 2-way and 3-way version.

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1. General technical data

Product properties	
Dimensions	Further information can be found in chapter "6. Dimensions" on page 6.
Material	
Seal	FFKM, FKM or EPDM
Fluidic housing	PEEK or PPS
Internal volume	Bürkert sub-base: from 110 µl Tube connector: from 285 µl UNF 1/4"- 28: from 115 µl
Minimum bending radius for flying leads version	Single bending: 8 mm Multiple bending: 13 mm
Orifice	DN 0.8 (Vac ^{1.)} ...5 bar DN 1.6 (Vac ^{1.)} ...2 bar
Circuit function	A, B and T Further information can be found in chapter "3. Circuit functions" on page 4.
Performance data	
Switching time ^{3.)}	Opening: approx. 10 ms (pressure build-up 0...10 %) Closing: approx. 13 ms (pressure reduction 100...90 %)
Electrical data	
Operating voltage ^{2.)}	12/24 V DC
Duty cycle	100 % continuous operation
Nominal power	4 W inrush power 1 W nominal holding power (internal power reduction)
Switching frequency ^{4.)}	Max. 5 Hz
Voltage tolerance ^{3.)}	12 V DC + 10 % / - 5 % 24 V DC ± 10 %
Medium data	
Operating medium	Resistant to neutral and aggressive liquids and gases (see chapter "5.1. Bürkert resistApp" on page 5)
Medium temperature	FFKM: + 15 °C...+ 50 °C FKM: - 10 °C...+ 50 °C EPDM: - 10 °C...+ 50 °C (for orifice DN 0.8) + 5 °C...+ 50 °C (for orifice DN 1.6)
Viscosity	Max. 21 mm ² /s
Process/Port connection & communication	
Electrical connection	PFA single leads, 0.5 mm ² (AWG20), length 300 mm Rectangular cable plug Type 2505 ▶
Port connection	Bürkert sub-base (10 × 30 mm) Tube connection UNF 1/4"- 28
Approvals and conformities	
Degree of protection	IP40 with flying leads IP30 with rectangular cable plug Type 2505 ▶
Environment and installation	
Installation	As required, preferably with actuator upright
Ambient temperature	FFKM: + 15 °C...+ 55 °C FKM: - 10 °C...+ 55 °C EPDM: - 10 °C...+ 55 °C (for orifice DN 0.8) + 5 °C...+ 55 °C (for orifice DN 1.6)

1.) Technical vacuum (-0.8 bar) to normally closed or normally open, connection to valve outlet (COM/OUT) only following consultation

2.) Battery voltage, note polarity (Flying leads version: red = +, black = -)

3.) Maximum permitted residual ripple

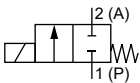
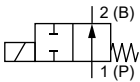
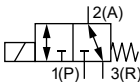
4.) At ambient temperature + 20 °C

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

2. Product versions

Flying leads with Bürkert sub-base	Rectangular plug with 3-way hose connector	Rectangular plug with 3-way threaded body
		

3. 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 Normally closed

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 versions 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.

5. Materials

5.1. Bürkert resistApp

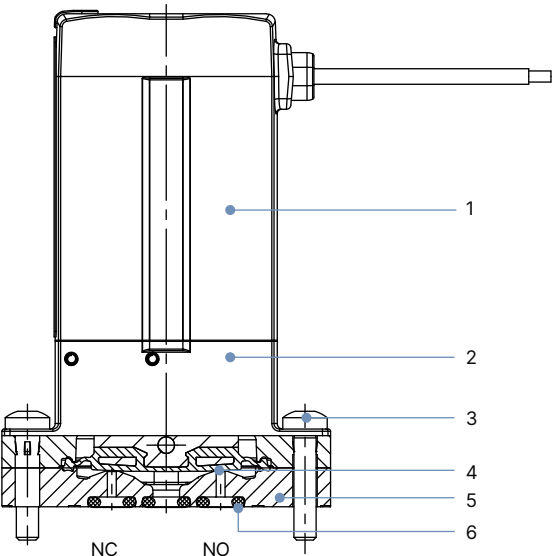


Bürkert resistApp – Chemical resistance chart

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	Coil	Epoxy
2	Valve body	PPS
3	Mounting screw M2	Stainless steel
4	Diaphragm ^{1.)}	FFKM, FKM or EPDM
5	Fluidic housing ^{1.)}	PEEK or PPS
6	Sub-base seal ^{1.)}	FFKM, FKM or EPDM

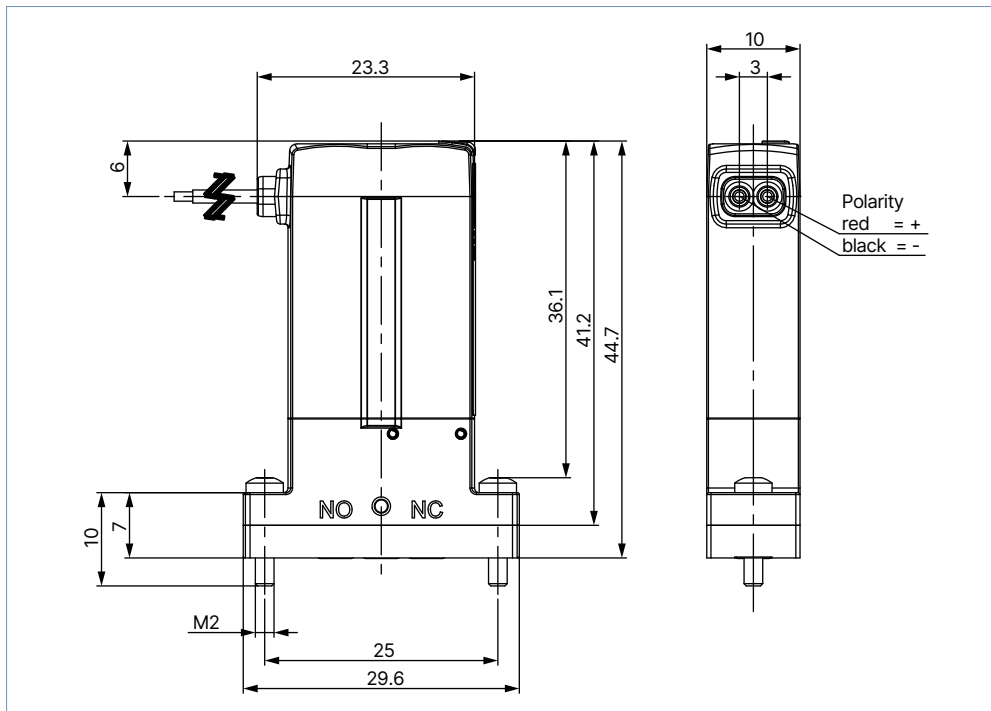
1.) in contact with medium

6. Dimensions

6.1. Sub-base version with flying leads

Note:

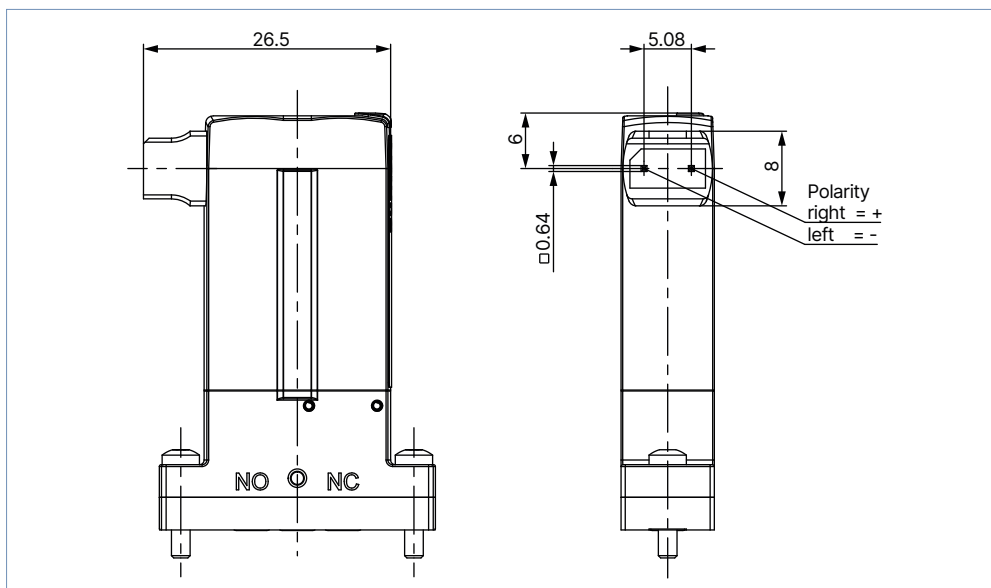
- Dimensions in mm
- Note polarity



6.2. Sub-base version with rectangular plug Type 2505

Note:

- Dimensions in mm
- Note polarity



Note:

Dimensions in mm

3/2-way connection		2/2-way connection	
Preferred fitting			
Further possible fitting			

Note:

Dimensions in mm

The figure contains two sets of technical drawings. The left set, titled 'Tube connection body', shows a side view with dimensions: 23.3 (width), 6 (height), 36.1 (height), 43 (height), 59.6 (height), 6.6 (height), 10 (height), 60° (angle), Ø 3.1 (hole), and Ø 4 (hole). It also shows a top view with dimensions: 25 (width), 38 (width), 45.5 (width), 10 (height), and Ø 3.1 (hole). The right set, titled 'Tube connection body with aperture', shows a side view with dimensions: 23.3 (width), 20 (width), 6 (height), 36.1 (height), 46.9 (height), 59.6 (height), 60° (angle), Ø 4 (hole), and Ø 4.6 (hole). It also shows a top view with dimensions: 29.6 (width), 38 (width), 45.5 (width), 10 (height), and Ø 3.1 (hole).

Note:

Dimensions in mm

Technical drawing of the 1000 Series Valve, showing front and side views with dimensions.

Front View Dimensions:

- Top width: 23.3
- Top left height: 6
- Right side height (main body): 36.1
- Right side height (total): 43
- Right side height (base): 56.2
- Base left height: 6.6
- Base right height: (6.6)
- Base width: 8
- Thread specification: UNF 1/4" - 28
- Angle: 60°
- Internal label: NO NC
- Port diameter: Ø 3.1

Side View Dimensions:

- Top right height: 10
- Port diameter: Ø 3.1
- Internal width: 25
- Internal width: 38
- Internal width: 45.5

7.1. Bürkert eShop



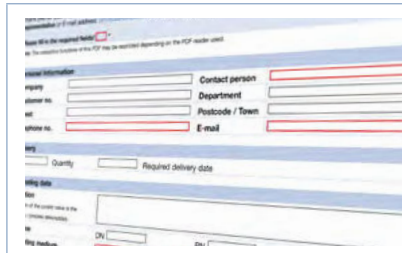
You want to find your desired Bürkert product or spare part quickly and order directly? Our online shop is available for you 24/7. Sign up and enjoy all the benefits.

Order online now

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



The form includes fields for: Contact person, Department, Postcode / Town, E-mail, Quantity, Required delivery date, and a section for 'Fill out the form now'.

Bürkert Product Enquiry Form – Your enquiry quickly and compactly

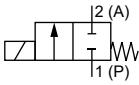
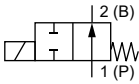
Would you like to make a specific product enquiry based on your technical requirements? Use our Product Enquiry Form for this purpose. There you will find all the relevant information for your Bürkert contact. This will enable us to provide you with the best possible advice.

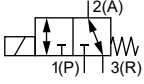
[Fill out the form now](#)

7.4. Ordering chart

Note:

- Other versions are available on request.
- 2 x fixing screws M2 × 10 for sub-base versions are included in the scope of delivery.
- Connectors for rectangular plugs are not included in the scope of delivery and must be ordered separately, see ["7.5. Ordering chart accessories" on page 10](#)

Circuit functions	Port connection	Orifice	K _v value water ¹⁾	Voltage/ Frequency	Pressure range	Max. pressure difference	Body material	Seal material	Electrical connection	Article no.
		[mm]	[m ³ /h]							
CFA 2/2-way solenoid valve Direct-acting Normally closed 	Bürkert sub-base	0.8	0.01	12/DC	Vac...5	5	PPS	EPDM	Flying leads 0.3 m	241341
				24/DC					Rectangular plug	241398
				12/DC					Flying leads 0.3 m	241342
				24/DC					Rectangular plug	241399
				12/DC			PEEK	FFKM	Flying leads 0.3 m	241344
				24/DC					Rectangular plug	227015
	UNF 1/4"-28	0.8	0.01	12/DC	Vac...5	5	PPS	FKM	Rectangular plug	241405
				24/DC					Flying leads 0.3 m	241351
				12/DC			PEEK	FFKM	Rectangular plug	241346
				24/DC					Flying leads 0.3 m	241349
				12/DC			PPS	FKM	Rectangular plug	241404
				24/DC					Flying leads 0.3 m	241412
	Bürkert sub-base	1.6	0.04	12/DC	Vac...2	2	PPS	EPDM	Rectangular plug	241413
				24/DC					Flying leads 0.3 m	241359
				12/DC			PEEK	FFKM	Rectangular plug	229429
				24/DC					Flying leads 0.3 m	241367
				12/DC			PPS	FKM	Rectangular plug	241424
				24/DC					Flying leads 0.3 m	241368
	UNF 1/4"-28	1.6	0.04	12/DC	Vac...2	2	PEEK	EPDM	Rectangular plug	241411
				24/DC					Flying leads 0.3 m	241361
				12/DC			PEEK	FFKM	Rectangular plug	241366
				24/DC					Flying leads 0.3 m	241423
				12/DC			PEEK	FFKM	Rectangular plug	241409
				24/DC					Flying leads 0.3 m	237705
CFB 2/2-way solenoid valve Direct-acting Normally open 	Bürkert sub-base	0.8	0.01	24/DC	Vac...5	5	PEEK	FFKM	Flying leads 0.3 m	o. r.
				24/DC					Rectangular plug	257036
	Bürkert sub-base	1.6	0.04	24/DC	Vac...2	2	PEEK	FFKM	Flying leads 0.3 m	o. r.
				24/DC					Rectangular plug	257036

Circuit functions	Port connection	Orifice	K _v value water ^{1.)}	Voltage/Frequency	Pressure range	Max. pressure difference	Body material	Seal material	Electrical connection	Article no.
		[mm]	[m ³ /h]	[V/Hz]	[bar]	[bar]				
CF T^{2.)} 3/2-way solenoid valve Direct-acting Flow direction optional Normally closed 	Bürkert sub-base	0.8	0.01	12/DC	Vac...5	5	PPS	EPDM	Rectangular plug	241428 
				24/DC						241429 
				12/DC			PEEK	FFKM	Flying leads 0.3 m	241373 
				24/DC						222936 
				12/DC			PPS	FKM		241379 
	UNF 1/4"-28			24/DC			PEEK	FFKM	Rectangular plug	241435 
									Flying leads 0.3 m	241375 
							PEEK	FKM		241377 
									Rectangular plug	241434 
	Bürkert sub-base	1.6	0.04	12/DC	Vac...2	2	PPS	EPDM	Rectangular plug	241442 
				24/DC						241443 
				12/DC			PEEK	FFKM	Flying leads 0.3 m	239935 
				24/DC						227815 
							PPS	FKM	Rectangular plug	229430 
	UNF 1/4"-28			12/DC					Flying leads 0.3 m	241394 
									Rectangular plug	241453 
									Flying leads 0.3 m	241395 
				24/DC			PEEK	EPDM		
									Rectangular plug	241441 
									Flying leads 0.3 m	241389 
									Rectangular plug	241452 
									Flying leads 0.3 m	241393 
	Tube connector							EPDM	Rectangular plug	241439 
									Flying leads 0.3 m	241387 
	Tube connector ^{3.)}							FFKM		242320 
									Rectangular plug	241445 
	Tube connector							FKM	Flying leads 0.3 m	241391 
									Rectangular plug	241450 

o. r. = on request

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

2.) Technical vacuum (~ 0.8 bar) to normally closed or normally open, connection to valve outlet (COM/OUT) only following consultation

3.) The housing has an aperture for easier separation of electronics and fluidics.

7.5. Ordering chart accessories

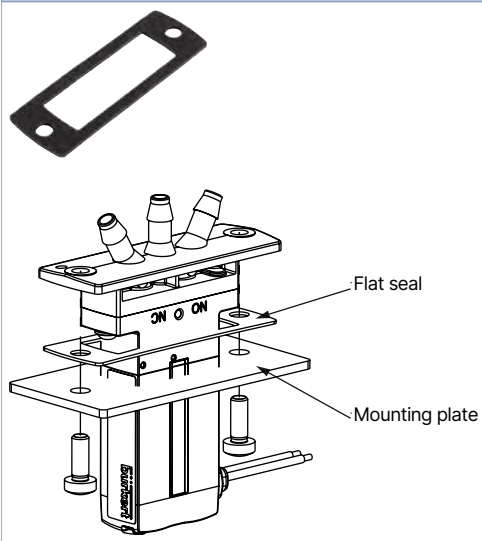
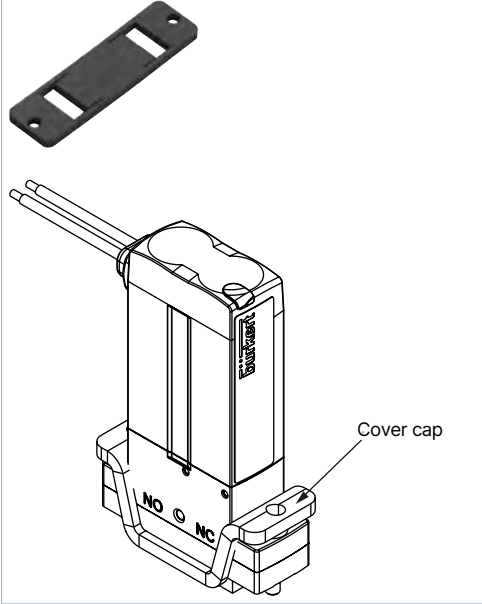
Rectangular cable plug Type 2505

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)	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), single contact for individual mounting	644067 

Further accessories

Accessories	Description	Article no.
	Foamed EPDM flat seal for tube connector body with aperture	685294 
	EPDM cover cap for sub-base body	o. r.

o. r. = on request

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