bürkert
FLUID CONTROL SYSTEMS

Direct-acting 2/2-way lifting armature valve

- Push-over solenoid system
- NC valves, certified in accordance with DIN EN ISO 23553-1
- Return valve for liquid fuels
- IP 65

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 6027
Direct-acting 2/2-way
plunger valve

Type 5406
Piston valve 2/2-way
servo-assisted

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Visit product website

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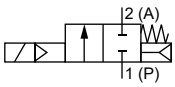
1. General technical data

Product properties	
Dimensions	Further information can be found in chapter "5. Dimensions" on page 6.
Material	
Seal	Seat: PTFE Housing: FKM
Body	Stainless steel
Coil	Epoxy
Orifice	DN 20
Circuit function	A Further information can be found in chapter "2. Circuit functions" on page 3.
Thermal insulation class of solenoid coil	Epoxy coil class H
Performance data	
Duty cycle	100 % continuous operation
Electrical data	
Operating voltage	110 V 50 Hz, 230 V 50 Hz (further voltages on request)
Medium data	
Operating medium	Heating oil (EL, L, M, S) according to DIN 51603 part 1 - 6 Shipping fuels acc. to ISO 8217 Only with stainless steel body: Fatty acid methyl esters (FAME) according to DIN EN 14213 Rapeseed oil acc. to DIN V 51605
Medium temperature	0 °C...+ 160 °C
Viscosity	Max. 1.6...76 mm^2/s
Product connections	
Electrical connection	Plug contacts according to DIN EN 175 301 - 803 form A for cable plug **Type 2518** ▶. Further information can be found in chapter "Cable plug Type 2518, form A according to DIN EN 175301 - 803" on page 8.
Port connection	G ¾
Approvals and conformities	
Degree of protection	IP65
DIN CERTCO registration (DN 20)	Reg. No.: 5S255
Others	Further information can be found in chapter "3.4. Others" on page 4.
Environment and installation	
Installation position	As required, preferably with actuator upright
Ambient temperature	- 15 °C...+ 60 °C

2. Circuit functions

Symbol	Description
	**Circuit function A (CF A)** 2/2-way solenoid valve Servo-controlled Normally closed

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 variants 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. Others

Safety shut-off valves

Approval	Description
	Safety shut-off valves as a piece of equipment with safety function according to DIN EN ISO 23553-1 (valid for the variable code PF15) The automatic and semi-automatic valves are suitable for use with oil, according to the manufacturer's declaration.

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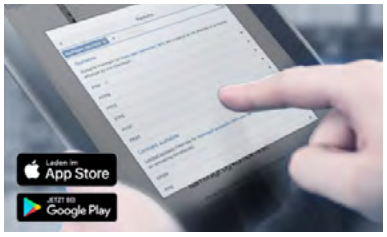
4. Materials

4.1. Bürkert resistApp



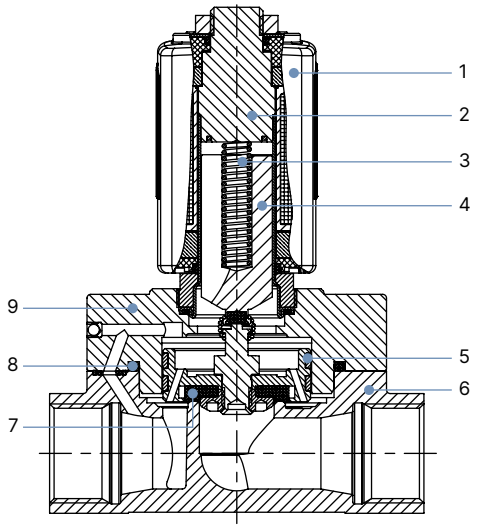
Bürkert resistApp – Chemical resistance chart

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 20



No.	Element	Material
1	Coil	Epoxy
2	Stopper	Stainless steel 1.4113
3	Spring	Stainless steel 1.4310
4	Core	Stainless steel 1.4113
5	Piston seal	PTFE/graphite
6	Valve body	Stainless steel 1.4581
7	Seal	PTFE
8	Seal ring	FKM
9	Cover	Stainless steel 1.4581

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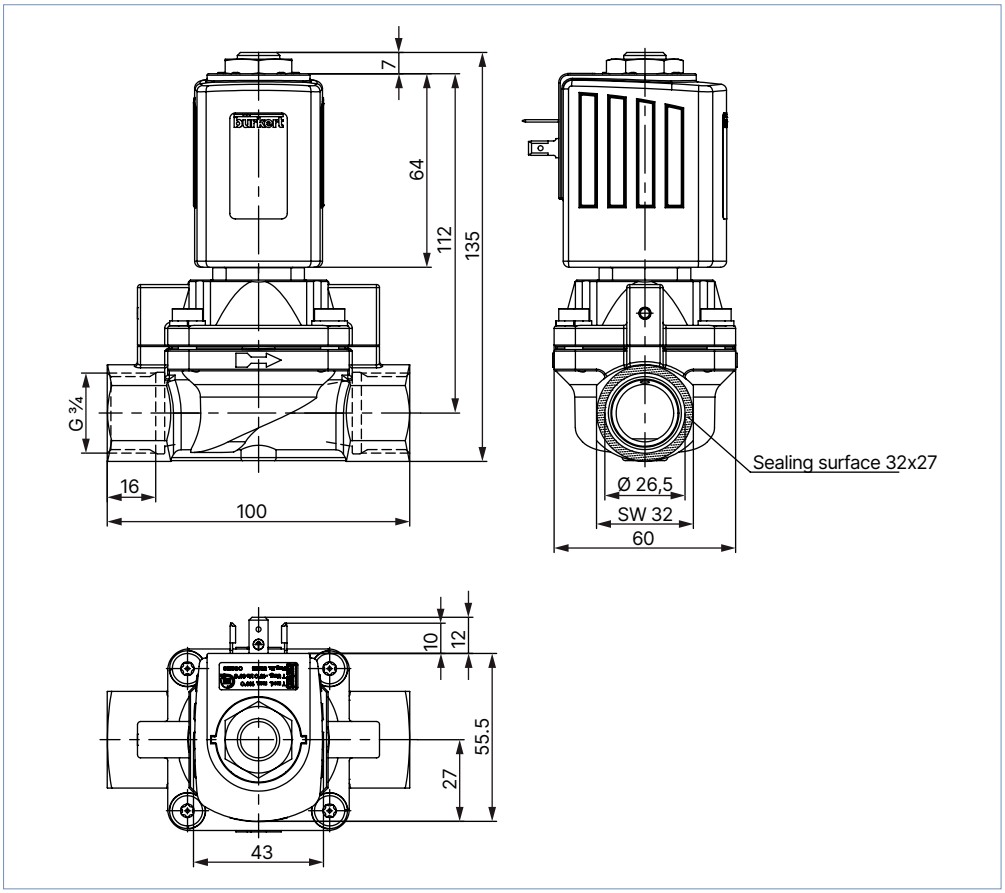
5. Dimensions

5.1. Standard variant DN 20

Note:
Dimensions in mm



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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

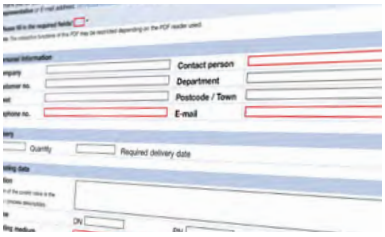
6.2. Bürkert product filter

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

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6.4. Ordering chart

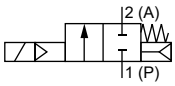
Flow valve/return valve combinations

If the oil burner is designed with a return nozzle and without a nozzle shut-off valve (see DIN EN 267), flow and return valves with safety shut-off function are required. The following combinations are possible:

Feed line valve				Return line valve			
Type	Orifice [mm]	Housing material	K_V value water [m³/h]	Type	Orifice [mm]	Housing material	K_V value water [m³/h]
6027	3	Brass/stainless steel	0.22	6027	3	Brass/stainless steel	0.18
6027	3.5	Brass/stainless steel	0.38	6027	3.5	Brass/stainless steel	0.35
5406 1.)	13	Brass	3.5	6027	10	Brass	1.8
5406 1.)	20	Stainless steel	6.3	5407 2.)	20	Stainless steel	4.7

1.) See data sheet **Type 6027** ▸ solenoid valve safety shut off valve for oil burner
2.) See data sheet **Type 5406** ▸ solenoid valve safety shut off valve for oil burner

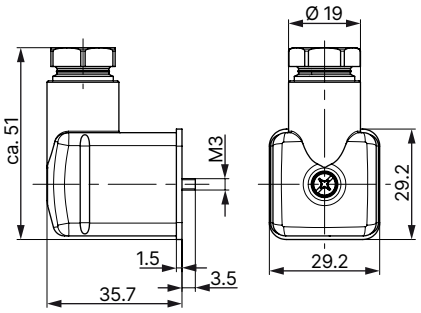
Note:
Further variants with alternative voltages and frequencies available on request.

Circuit function	Port connection	Orifice [mm]	K_V value water [m³/h]	Appli-cations	Electrical power Operation [W]	Electrical power Inrush [VA]	Medium pressure max. Oil [bar]	Body material	Article no. 110...120/50 [V/Hz]	Article no. 220...240/50 [V/Hz]
G-inner thread, seal material PTFE/FKM										
DIN EN ISO 23553-1 Safety isolating equipment for liquid fuels PF15										
CF A 2/2-way solenoid valve Servo-controlled Normally closed 	G ¾	20.0	4.7	Return line	20	180	30	Stain-less steel	239737	246108

6.5. 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) with silicone seal for higher ambient temperature	0...250 V AC/DC	361687

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