DATA SHEET

Type 5406

Piston valve 2/2-way servo-assisted

- Push-over solenoid system
- NC valves, certified in accordance with DIN EN ISO 23553-1
- Supply or circulation valve for liquid fuels
- IP65

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 5407 ▸
Direct-acting 2/2-way lifting armature valve

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Visit product website ▸

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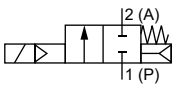
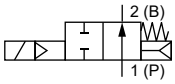
1. General technical data

Product properties	
Dimensions	Further information can be found in chapter "5. Dimensions" on page 6.
Material	
Seal	Seat: PTFE Housing: FKM
Body	Brass, stainless steel
Coil	Epoxy
Orifice	DN 13, DN 20
Circuit function	A and B Further information can be found in chapter "2. Circuit functions" on page 3.
Thermal insulation class of solenoid	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 according to ISO 8217 Only with stainless steel body: Fatty acid methyl esters (FAME) according to DIN EN 14213 Rapeseed oil according 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 ⅜, G ½, G ¾
Approvals and conformities	
DIN CERTCO registration (NC valves, DN 13, DN 20)	Reg. No.: 5S255
Degree of protection	IP65
North America (USA/Canada)	Further information can be found in chapter "3.4. North America (USA/Canada)" 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
	**Circuit function B (CF B)** 2/2-way solenoid valve Servo-controlled Normally open

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. North America (USA/Canada)

Approval	Description
c US	**Optional: UL Recognized for the USA and Canada (valid for coils)** The coils are UL Recognized for the USA and Canada according to: • UL 429 (electrically operated valves) • CAN/CSA-C22.2 No. 139
c UL US LISTED SOLENOID FOR USE IN HAZARDOUS LOCATIONS E504714	**Optional: UL Hazardous Locations – Explosion Protection (valid for coils)** UL Listed for Hazardous Locations for USA and Canada Class I, Zone 1 Class I, Division 2, Group A, B, C and D Class II + III, Division 2, Group F and G

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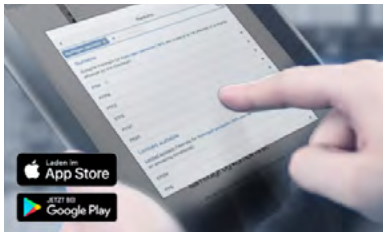
4. Materials

4.1. Bürkert resistApp



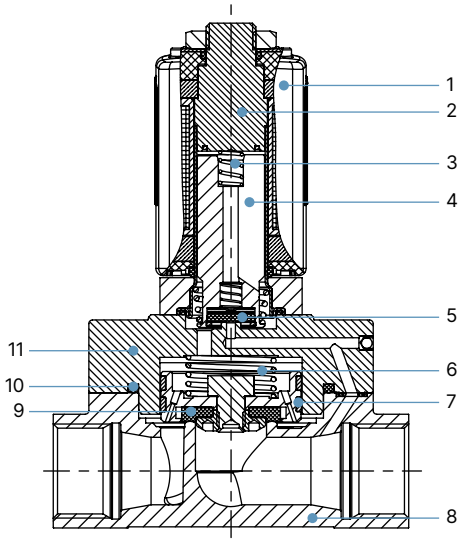
Bürkert resistApp – Chemical resistance chart

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 13 and DN 20



No.	Element	Material
1	Coil	Epoxy
2	Stopper	Stainless steel 1.4113
3	Spring	Stainless steel 1.4310
4	Plunger	Stainless steel 1.4105
5	Seat seal	PTFE
6	Spring	Stainless steel 1.4310
7	Piston seal	PTFE/graphite
8	Valve body	DN 13 brass DN 20 stainless steel 1.4581
9	Seat sealing	PTFE
10	Seal ring	FKM
11	Cover	DN 13 brass DN 20 stainless steel 1.4581

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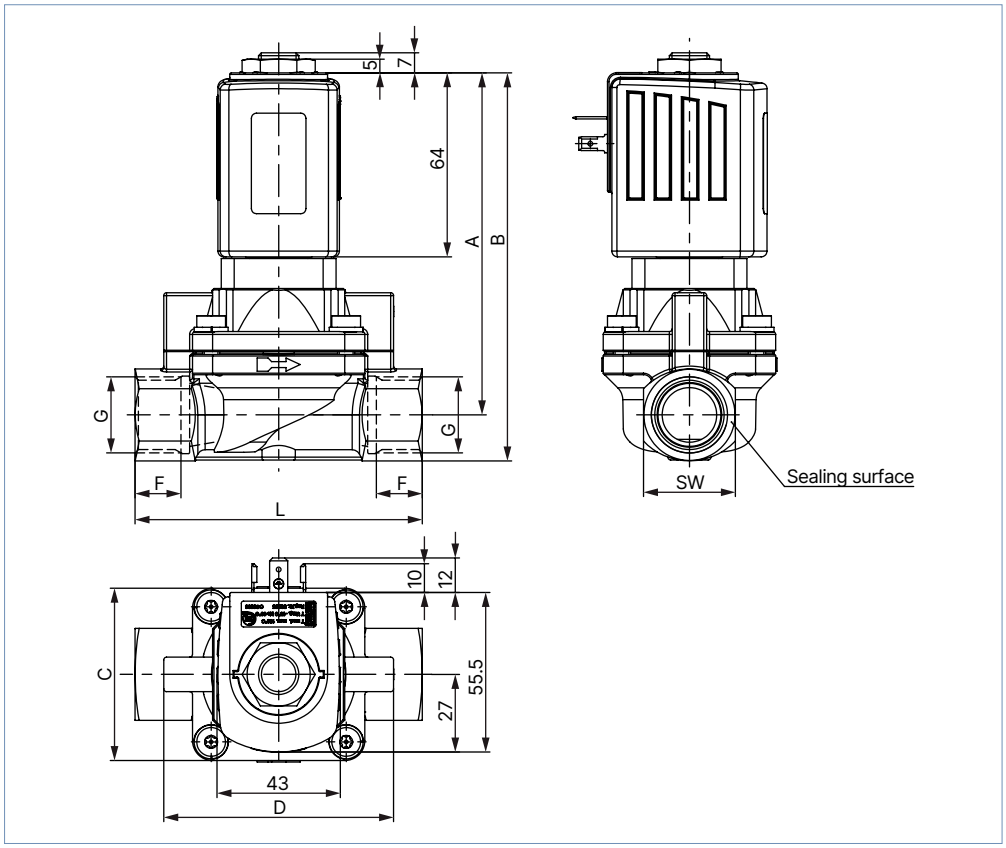
5. Dimensions

5.1. Standard variant DN 13 and DN 20

Note:
Dimensions in mm



DN	A	B	C	D	F	G	L	SW	Sealing surface
13	118	131.5	40	57	12	G ⅜	75	27	17 × 21
					14	G ½			22 × 27
20	119	135	60	80	16	G ¾	100	32	27 × 32

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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

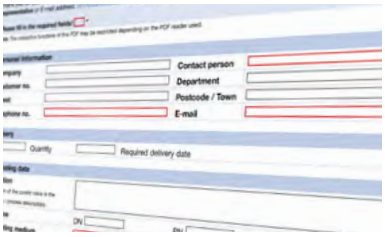
6.2. Bürkert product filter

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

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 burners
2.) See data sheet **Type 5407** ▸ solenoid valve safety shut-off valve for oil burners

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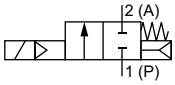
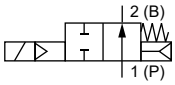
Note:
Further variants with alternative voltages and frequencies available on request.

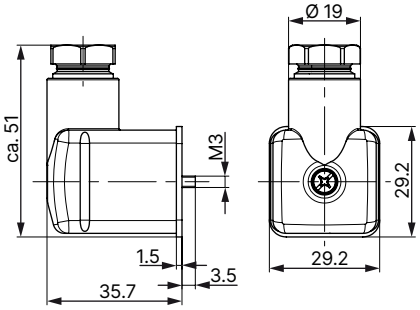
Circuit function	Port connection	Orifice	K_v value water	Applications	Closing times	Electrical power		Pressure range	Body material	Article no.	
						Operation	Inrush	Oil		110...120/50	220...240/50
		[mm]	[m³/h]		[ms]	[W]	[VA]	[bar]		[V/Hz]	[V/Hz]
G-inner thread, seal material PTFE/FKM											
DIN EN ISO 23553 - 1 Safety isolating equipment for liquid fuels PF15											
CF A 2/2-way solenoid valve Servo-controlled Normally closed 	G ⅜	13.0	3.5 3.0	Feed line	< 500	20	120	1...30	Brass	270861	257496
	G ½	13.0	3.3 3.0	Feed line	< 500	20	120	1...30	Brass	233267	230462
	G ¾	20.0	6.3	Feed line	< 800	20	120	1...30	Stainless steel	233270	239769
Normally open without approval DIN EN ISO 23553 - 1, but adapted for use with liquid fuels MW85											
CF B 2/2-way solenoid valve Servo-controlled Normally open 	G ⅜	13.0	3.5 3.0	Circulation	< 500	20	120	1...30	Brass	382364	328969
	G ½	13.0	3.3 3.0	Circulation	< 500	20	120	1...30	Brass	o. r.	233271

o. r. = on request

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, e.g. steam variant (NA07)	0...250 V AC/DC	361687

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