Plunger valve 3/2-way direct-acting

- 3/2 way seat valve direct-acting
- Push-over coil system
- Medium temperature up to +180 °C
- For liquid and gaseous media

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

Can be combined with

Type 1087
Timer,
form A according to
DIN EN 175301-803

Type 2518
Cable plug,
form A according to
DIN EN 175301-803

Type description

Direct-acting plunger solenoid valve Type 0355 for controlling hot media such as steams, oils and gases.

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Visit product website

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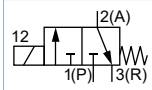
1. General technical data

Product properties	
Dimensions	Further information can be found in chapter "5. Dimensions" on page 6.
Material	
Seal	NBR, FKM, PTFE, EPDM
Body	Brass with stainless steel seat 1.4305, stainless steel 1.4581
Coil	Epoxy
Inner part of valve	Stainless steel
Orifice	DN 2.0...DN 4.0
Circuit function	C Further information can be found in chapter "2. Circuit functions" on page 4.
Thermal insulation class of solenoid coil	Epoxy coil class H
Performance data	
Duty cycle	100 % continuous operation
Electrical data	
Operating voltage	24 V DC, 24 V 50 Hz, 110 V 50 Hz, 230 V 50 Hz (further voltages on request)
Power consumption	
Inrush	AC: 35...40 VA
Hold (warm coil)	AC: 16 VA/10 W DC: approx. 12 W
High temperature coil CF42	Cold performance: 10 W Warm performance: 6 W
High temperature coil CF09	Cold performance: 13 W Warm performance: 7 W
Voltage tolerance	± 10 %
Medium data	
Operating medium	
With NBR	Neutral liquids, hydraulic oil, oil without additives
With EPDM	Oil-free and fat-free liquids
With FKM	Per-solutions, hot oils with additives
With PTFE	Steam, organic solvents
Medium temperature	
With NBR	- 10 °C...+ 90 °C
With EPDM	- 40 °C...+ 130 °C
With FKM	0 °C...+ 130 °C
With PTFE	- 40 °C...+ 180 °C
Product connections	
Electrical connection	Plug contacts according to DIN EN 175301 - 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 9 (supplied as standard).
Port connection	G ¼, NPT on request
Approvals and certificates	
Degree of protection	IP65 with cable plug IP50 without cable plug for high temperature devices
North America (USA/Canada)	Further information can be found in chapter "3.4. North America (USA/Canada)" on page 4.
Others	Further information can be found in chapter "3.5. Others" on page 4.
Environment and installation	
Installation position	As required, preferably with actuator upright
Ambient temperature	Max. + 55 °C (+ 200 °C on request)

2. Circuit functions

Symbol	Description
	**Circuit function C (CF C)** 3/2-way solenoid valve Direct-acting 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. North America (USA/Canada)

Approval	Description
c UL 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

3.5. Others

Oxygen

Conformity	Description
O_2	**Optional: Suitability for oxygen (valid for the variable code NL02)** The products are suitable for use with gaseous oxygen, according to the manufacturer's declaration.

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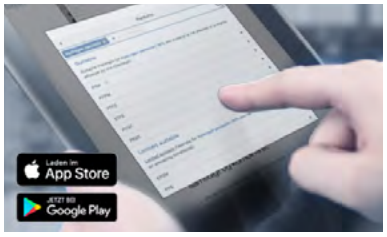
4. Materials

4.1. Bürkert resistApp

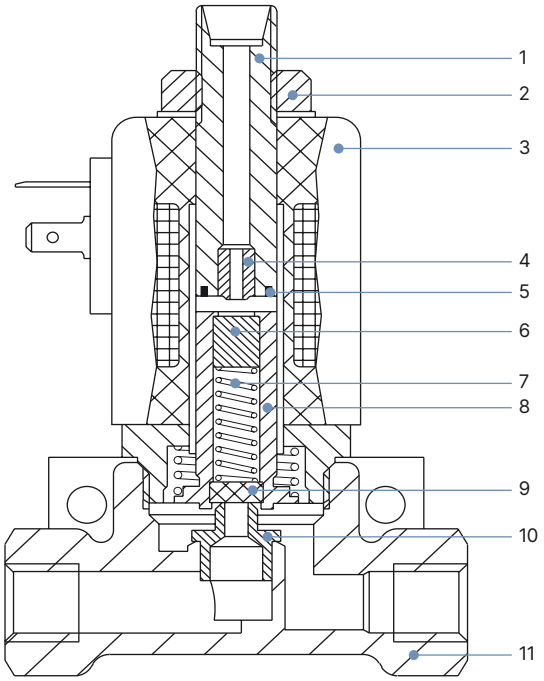


Bürkert resistApp – Chemical resistance chart

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



No.	Element	Material
1	Stopper	Stainless steel 1.4105
2	Nut	Steel (thick-film passivated acc. to RoHS)
3	Coil	Epoxy
4	Valve Seat	Stainless steel 1.4305
5	Shading ring	Copper (brass variant), only AC Silver (stainless steel variant), only AC
6	Seal	EPDM, NBR, PTFE, FKM
7	Spring	Stainless steel 1.4310
8	Plunger	Stainless steel 1.4105
9	Seal	EPDM, NBR, PTFE, FKM
10	Valve Seat	Stainless steel 1.4305
11	Body	Brass or stainless steel 1.4581

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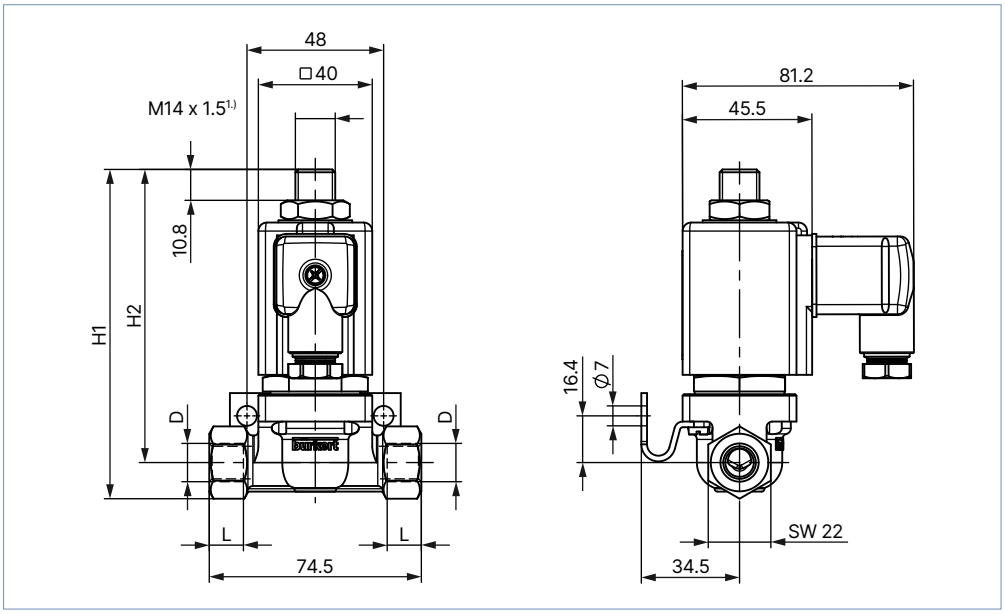
5. Dimensions

5.1. Stainless steel variant

Note:
Dimensions in mm



1.) M14 × 1.5 is intended for cutting ring fittings according to DIN EN ISO 8434, pipe diameter 8 mm.

D	L	H1	H2
NPT ¼	10	115.5	103
G ¼	12		

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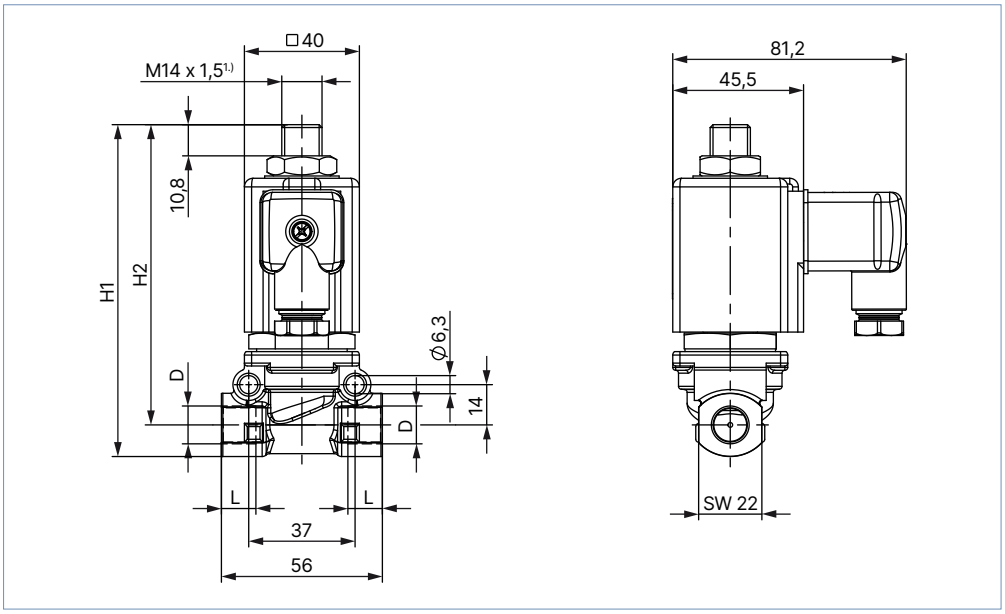
5.2. Brass variant

Note:
Dimensions in mm



1.) M14 × 1.5 is intended for cutting ring fittings according to DIN EN ISO 8434, pipe diameter 8 mm.

D	L	H1	H2
NPT ⅜	10.3	115.5	104.5
NPT ¼	10		
G ⅜	12		
G ¼	12		

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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

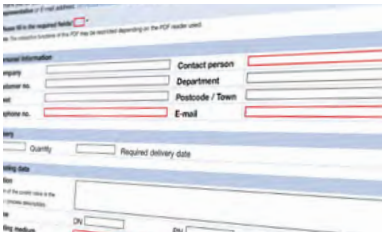
6.2. Bürkert product filter

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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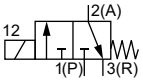
6.4. Ordering chart

Note:

- A cable plug is included in the delivery.
- Valves with brass body have a pressed in stainless steel seat 1.4305.
- Other variants on request

Circuit function	Port connection	Orifice	K_V value water	Pressure range	Seal material	Article no.		
						024/DC	024/50	230/50
		[mm]	[m³/h]	[bar]		[V/Hz]	[V/Hz]	[V/Hz]
CF C 3/2-way solenoid valve Direct-acting Normally closed 	**Brass body**							
	G ¼	2.0	0.11	0...16	EPDM	–	–	066007
					NBR	043089	026069	068078
				0...14	PTFE	062188	049998	049025
		3.0	0.2	0...10	FKM	064392	–	126056
					NBR	068557	017668	061174
				0...8	PTFE	052665	067817	054885
		4.0	0.4	0...5	FKM	–	–	046655
					NBR	061104	019095	061019
					PTFE	052078	065552	058403
	Stainless steel body							
	G ¼	4.0	0.4	0...5	PTFE	–	–	021253
					FKM	–	–	066759

– = not available

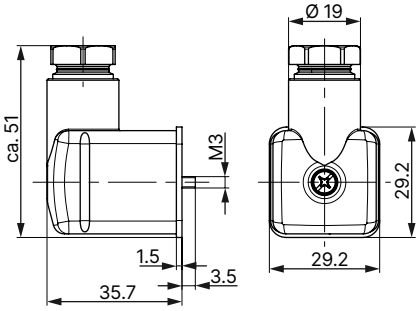
Further variants on request	
Control function/Circuit function Circuit functions D and E on request	**Voltage** Further voltages are available on request.
Material Further valve combinations (body and seal material) are available on request.	**Approval** Further information can be found in chapter "3. Approvals and conformities" on page 4.
Temperature High temperature variant up to + 200 °C	

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)	0...250 V AC/DC	314802
		With LED (AC/DC)	12...24 V AC/DC	314812
		With LED and varistor (AC/DC)	12...24 V AC/DC	314820
		With rectifier, LED and varistor	12...24 V AC/DC	314816
		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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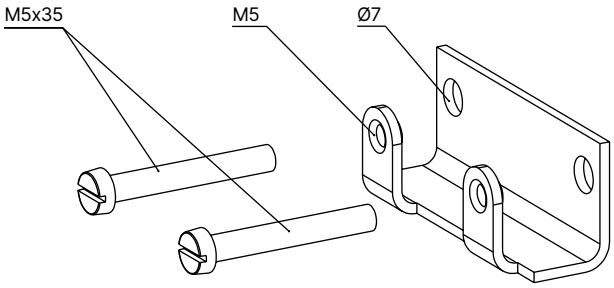
Mounting set brass body

Note:

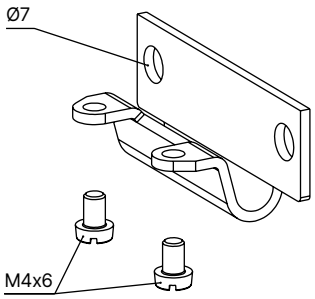
- A mounting clamp and 2 cheese head screws M5 × 35 are included in the scope of delivery.
- Only for brass variant
- 37 mm separation between the M5 threaded holes
- 48 mm separation between the Ø 7 bores
- Valve mounting with mounting set see "5.2. Brass variant" on page 7.

Description	Article no.
	151287

Mounting set stainless steel body

Note:

- A mounting clamp and 2 cheese head screws M4 × 6 are included in the scope of delivery.
- Only for stainless steel variant
- 29 mm separation between the M4 threaded holes
- 48 mm separation between the Ø 7 bores
- Valve mounting with mounting set see "5.1. Stainless steel variant" on page 6.

Description	Article no.
	260250

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