DATA SHEET

Type 0255

bürkert
FLUID CONTROL SYSTEMS

Direct-acting 2/2 way plunger valve

- Push-over solenoid system
- Compact design, up to DN 6
- Housing made of brass or stainless steel with threaded connection

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

Can be combined with

Type 2518 ▸
Cable Plug DIN EN 175301-803 - Form A

Type 1087 ▸
Timer

Type description

The direct-acting plunger solenoid valve Type 0255 is also suitable for high pressures and high temperatures.

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Visit product website ▸

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1. General Technical Data

Product properties	
Dimensions	Detailed information can be found in chapter "4. Dimensions" on page 5.
Material	
Seal	FKM, PTFE (others on request)
Body	Brass with stainless steel seat 1.4305 or stainless steel body 1.4581
Coil	Epoxy
Nominal diameter	DN 1.0…DN 6.0
Switching function	Detailed information can be found in chapter "2. Circuit functions" on page 4.
Thermal insulation class of solenoid	H
Weight	0.6 (brass version)
Electrical data	
Voltage tolerance	±10 %
Duty cycle	100 % continuous operation
Medium data	
Medium temperature	
With FKM	-10 °C…+130 °C
With PTFE	-40 °C…+180 °C
With stainless steel	Up to +250 °C (on request)
Operating medium	
With FKM	Hot air, hot oils, oils with additives, per-solutions
With PTFE	Water, steam, fuels, hydraulic materials, alcohol, organic solvents, waste gas
Viscosity (max.)	Max. 21 mm^2/s
Process/Port connection & communication	
Electrical connection	Cable plug for Ø 7 mm cable, acc. to DIN EN 175 301-803 Form A (supplied as standard)
Approvals and certificates	
Degree of protection	IP65 with cable plug for standard devices IP50 without cable plug for high temperature devices
Environment and installation	
Installation position	As required, preferably with actuator upright
Ambient temperature	Max. +55 °C (+250 °C on request, see "6.3. Ordering chart" on page 8)

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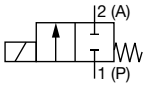
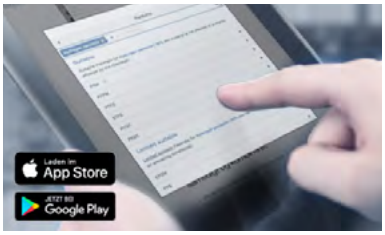
2. Circuit functions

Circuit functions	Description
	**Type: A, solenoid valve** 2/2 way Direct-acting Normally closed

3. Materials

3.1. Chemical Resistance Chart – Bürkert resistApp

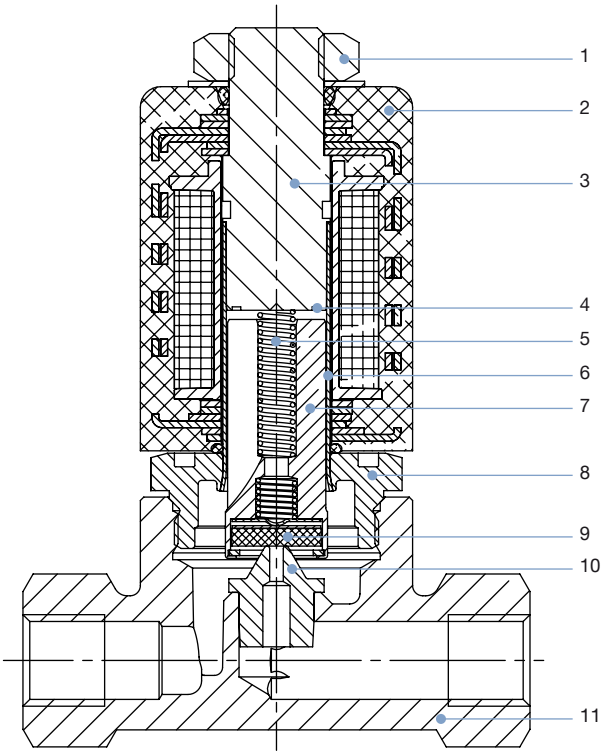


Bürkert resistApp – Chemical Resistance Chart

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

3.2. Material specifications



No.	Element	Material
1	Locknut	Steel (thick-film passivated acc. to Rohs)
2	Coil	Epoxy
3	Stopper	Stainless steel 1.4105
4	Shading ring	Copper (brass version), only AC Silver (stainless steel version), only AC
5	Spring	Stainless steel 1.4310
6	Guide tube	Stainless steel 1.4571
7	Plunger	Stainless steel 1.4105
8	Hexagon nut	Stainless steel 1.4401 or stainless steel 1.4571
9	Seal	FKM, PTFE
10	Valve Seat	Stainless steel 1.4305 or stainless steel 1.4112 (only brass body)
11	Body	Brass or stainless steel 1.4581

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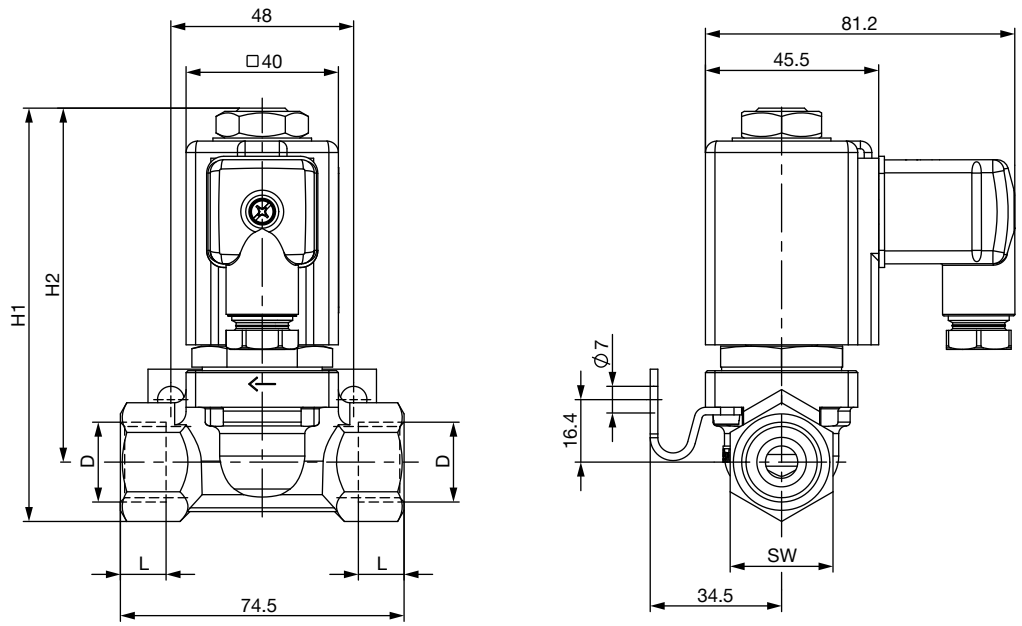
4. Dimensions

4.1. Stainless steel version

Note:
Dimensions in mm

Illustration stainless steel housing



D	L	H1	H2	SW
G ½	14	108.5	93	27
G ¼	12	106		22
NPT ½	13.5	108.5		27
NPT ¼	10	106		22

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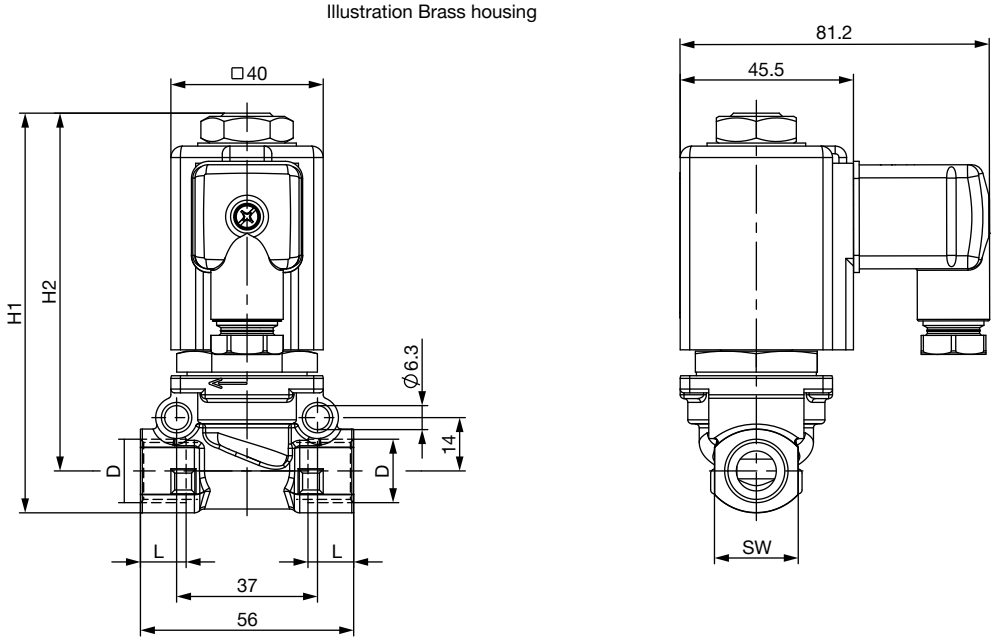
4.2. Brass version

Note:
Dimensions in mm

Illustration Brass housing



D	L	H1	H2	SW
G ½	14	107	93	27
G ¼	12	105	94	22
G ⅜				
NPT ½	13,5	107	93	27
NPT ¼	10	105	94	22
NPT ⅜	10,3			

5. Performance specifications

5.1. Power consumption

Standard coil

DN	Electrical power consumption			Response times			
	Inrush	Hold (hot coil)[1.]		Opening		Closing	
	AC	AC	DC	AC	DC	AC	DC
[mm]	[VA]	[VA/W]	[W]	[ms]	[ms]	[ms]	[ms]
1.0…6.0	35…40	16/10	Ca. 12 (13)	10…20	20…80	20…30	20…30

1.) Value in brackets corresponds to a coil temperature of 20 °C

2.) Response times for standard and high temperature devices

High temperature version

DN	Electrical power consumption			
	CF07 – up to 250°C ambient temperature		CF09 – up to 180°C ambient temperature	
	Cold performance[1.]	Warm performance[2.]	Cold performance[1.]	Warm performance[2.]
[mm]	[W]	[W]	[W]	[W]
1.0 … 6.0	35	15	13	7

1.) Cold performance refers to a coil temperature of 20 °C

2.) Warm performance at max. ambient temperature and 100% duty cycle

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