



Diaphragm valve 2/2 way servo-assisted

- Push-over solenoid system
- Energy-saving AC07 coil, max. DN 13
- Body in plastic

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

Can be combined with



Type 2507 ▶
Cable plug - industry standard plug Form B



Type 2516 ▶
Cable plug DIN EN 175301-803 - form C

Type description

The Type 6228 is a servo-assisted 2/2 way solenoid valve with servo-diaphragm. It is particularly suited for neutral media. Without electrical power, this solenoid valve is closed. Pressure builds up through the servo diaphragm, which pushes the latter downwards and thereby keeps the valve closed. On switching, the space above the servo-diaphragm will be relieved via the pilot valve. As a result, the pressure of the medium lifts the servo-diaphragm, and the main valve opens. A minimum differential pressure of 0.5 bar is required for complete opening and closing. The special design and geometry of the internal parts of the valve produce a soft closing function with very low pressure peaks only. It is very simple to extend the valve radially.

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1. General Technical Data

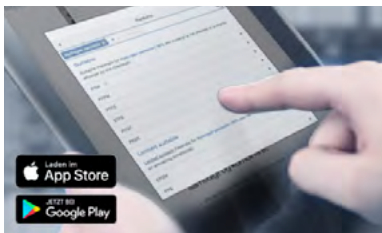
Product properties	
Dimensions	Detailed information can be found in chapter "4. Dimensions" on page 5.
Material	
Seal	NBR, EPDM, FPM
Body	PPE, PA
Cover	PPE, PA
Valve internal parts	PPS, MS
Weight	130 g (DN 10), 180 g (DN 13)
Electrical data	
Operating voltage	24 V DC, 24/110/230 V / 50...60 Hz
Voltage tolerance	± 10 %
Duty cycle	100 % continuous rating
Medium data	
Medium temperature	
NBR	0 °C...+50 °C
EPDM	-10 °C...+50 °C
FPM	0 °C...+50 °C
Operating medium	Neutral media that does not attack the materials (e.g. compressed air, water, hydraulic oil, oils, greases without additives)
Process/Port connection & communication	
Port connection	Threaded ports G 3/8, G 1/2 (see "6.3. Ordering chart accessories" on page 8)
Electrical connection	<ul style="list-style-type: none"> • Tag connectors sideways • To DIN EN 175301 - 803 Form C for cable plug Type 2516 / 2510 (see "6.3. Ordering chart accessories" on page 8)
Environment and installation	
Installation position	As required, preferably with actuator upright
Degree of protection	IP65 with cable plug
Ambient temperature	0...+50 °C

2. Circuit functions

Circuit functions	Description
	Type: A, solenoid valve 2/2 way Servo-controlled Normally closed

3. Materials

3.1. Chemical Resistance Chart – Bürkert resistApp

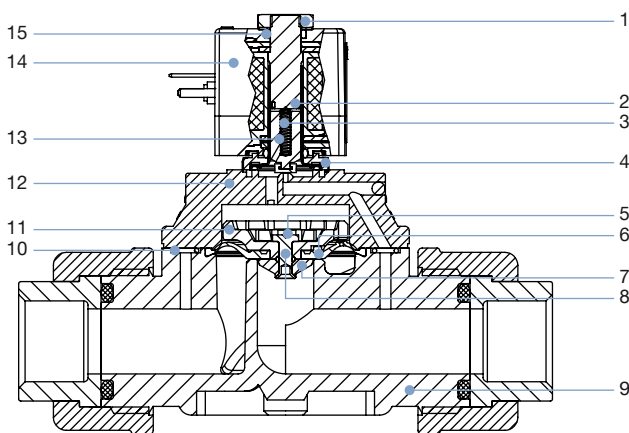


Bürkert resistApp – Chemical Resistance Chart

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

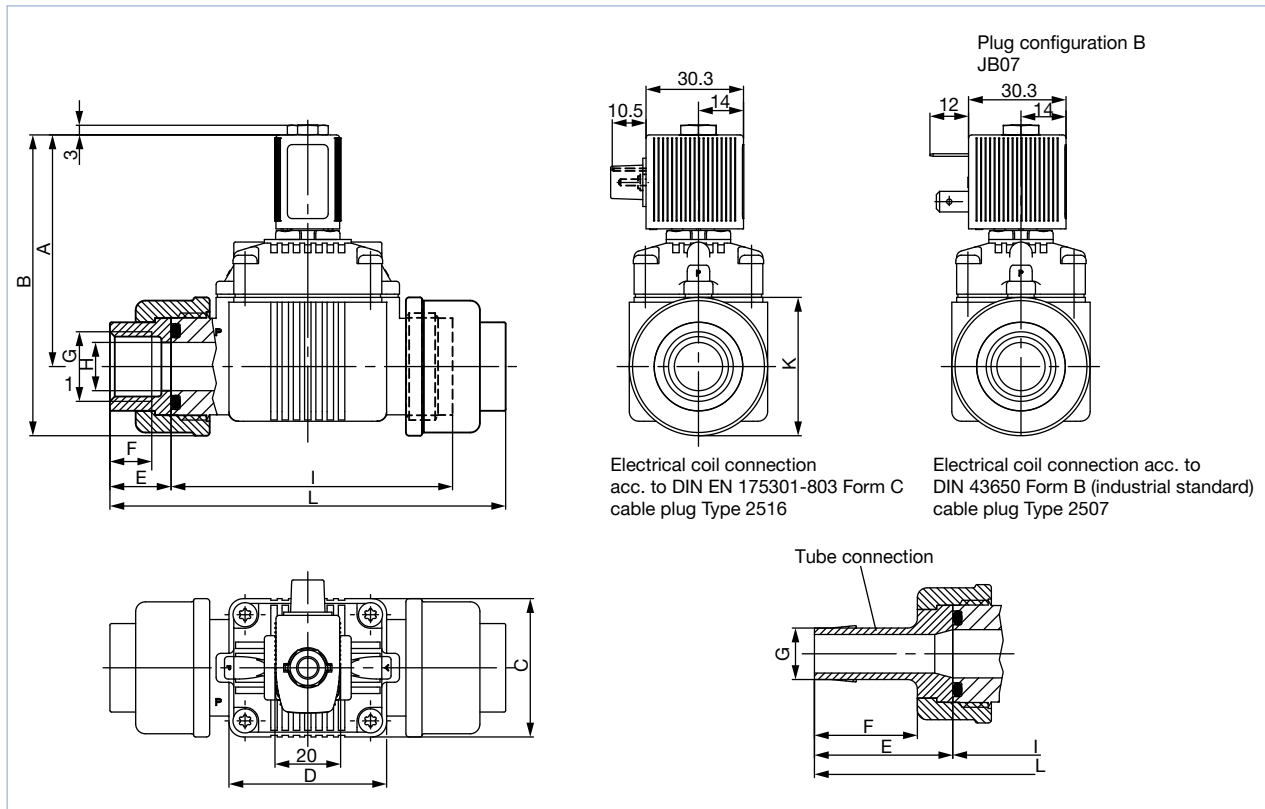


No.	Element	Material
1	Nut	9SMnPb28K (Surface Zn5glcA)
2	Shading ring	Cu
3	Core	1.4105
4	Flange	Zn3glcC (Oberfläche)
5	Feder	1.4310
6	Diaphragm	NBR, FPM, EPDM
7	Diaphragm holder	Brass, PPS
8	Bolt	1.4401
9	Housing	PPE / PA
10	O-ring	NBR, FPM, EPDM
11	Diaphragm support	PPS
12	Housing cover	PPE / PA
13	Spring	1.4310
14	Coil: DIN EN 175301 -803 C DIN 43650 B (industry standard)	PA Epoxy
15	O-ring	NBR, FPM, EPDM

4. Dimensions

Note:

- For G-thread the values F2 and G2 are valid
- Dimensions in mm



Hose-Ø	DN	A	B	C	D	Threaded connection				Tube connection						
						E	F2	G2	L	E	F	G	L	H	K	I
14	10	65.5	83	32	32	17	13	G 3/8	107	42	32	Ø 14	157	Ø 10	Ø 35	73
16	13	72	93.5	43	49	19	13	G 1/2	123	43	32	Ø 16	171	Ø 15	Ø 43	85

5. Performance specifications

5.1. Power consumption

DN	K _v value water ^{1.)}	Port connection	Pressure range ^{2.)}	Electrical power consumption				Switching times ^{3.)}	
				Inrush		Operation		Opening	Closing
[mm]	[m ³ /h]		[bar]	AC [VA]	DC [W]	AC [VA]	DC [W]	[ms]	[ms]
10	1.8	G 3/8	0.5...10	9	4	6	4	30	150
13	3.2	G 1/2	0.5...10	9	4	6	4	to 60	to 300

1.) Flow value for water, measured at +20 °C, 1 bar pressure at valve inlet and free outlet

2.) Overpressure to atmospheric pressure

3.) Switching times [ms]: Measurement at valve output at 6 bar^{1.)} and +20 °C. Opening: Pressure build-up 0...90 %, Closing: Pressure reduction 100...10 %.