



## Diaphragm valve 2/2 way servo-assisted

- Push-over solenoid system AC07
- Energy-saving AC07 coil, max. DN 20
- Body in brass
- Pressure range 0.5 up to 10 bar



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

### Can be combined with



**Type 2507** ▶  
Male connector  
DIN EN 175301-803 -  
connector shape B



**Type 2516** ▶  
Cable plug  
DIN EN 175301-803 -  
connector shape C

### Type description

The Type 6211 is a servo-assisted normally closed 2/2-way solenoid valve with a servo diaphragm for use especially with neutral fluids and gaseous media. The valve has a low power consumption, low weight and a compact body. The valve is normally closed by spring force. Energized, the solenoid opens the pilot valve first. Then the medium pressure opens the main valve due to the pressure drop above the diaphragm. The valve opens. The special design and geometry of the inner parts of the valve result in a soft closing function and cause almost no water hammer.

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## 1. General Technical Data

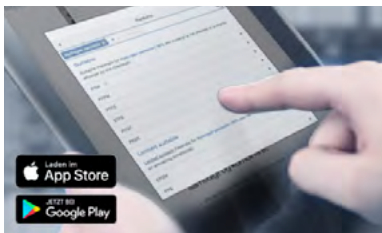
Product properties	
Dimensions	Detailed information can be found in chapter <a href="#">“4. Dimensions”</a> on page 5.
<b>Material</b>	
Seal	NBR, EPDM, FKM
Body	Brass acc. to DIN 50930 - 6
Cover	PPE/PA
Weight	Detailed information can be found in chapter <a href="#">“5.1. Power consumption”</a> on page 6.
Switching function	Detailed information can be found in chapter <a href="#">“2. Circuit functions”</a> on page 3.
<b>Thermal insulation class of solenoid coil</b>	
Polyamide coil	Cable plug Form C - class B
Epoxy coil	Cable plug Form B - class H, flying leads
<b>Electrical data</b>	
Operating voltage	24 V DC 24 / 110 / 230 V / 50...60 Hz
Voltage tolerance	± 10%
Duty cycle	100 % continuous rating
<b>Power consumption</b>	
Inrush	<b>4 W</b> 9 VA AC, 4 W DC (warm), 5 W (kalt)
Hold	6 VA AC, 4 W DC
<b>Medium data</b>	
<b>Medium temperature</b>	
With NBR	0 °C...+70 °C
With EPDM	-10 °C...+70 °C
With FKM	0 °C...+70 °C
<b>Operating medium</b>	
With NBR	Neutral gases and fluids (e.g. compressed air, water, hydraulic oil, oil, fat without additives)
With EPDM	Oil and fat-free medium (e.g. alkaline washing and bleaching lyes)
With FKM	Per-solutions, oils with additives
<b>Process/Port connection &amp; communication</b>	
Port connection	G 3/8 ... G 1 (NPT or RC on request)
Electrical connection	Tag connector sideways: <ul style="list-style-type: none"> <li>• acc. to DIN EN 175301-803 Form C for cable plug Type 2516 (on request, see <a href="#">“6.4. Ordering chart accessories”</a> on page 8)</li> <li>• acc. to DIN 43650 Form B (industrial standard) for cable plug Type 2507 (see <a href="#">“6.4. Ordering chart accessories”</a> on page 8)</li> </ul>
<b>Environment and installation</b>	
Installation position	As required, preferably with actuator upright
Ambient temperature	Max. +55 °C
Degree of protection	IP65 with cable plug

## 2. Circuit functions

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

### 3. Materials

#### 3.1. Chemical Resistance Chart – Bürkert resistApp

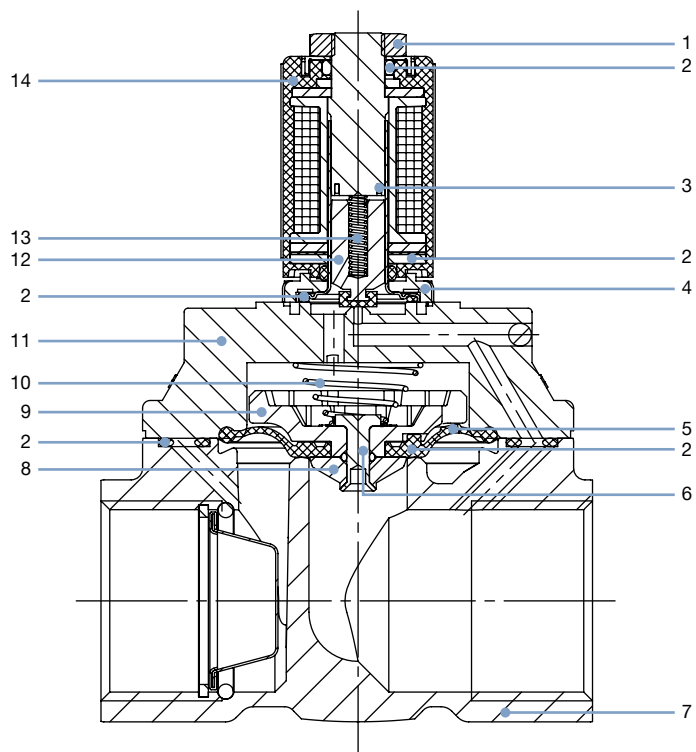


**Bürkert resistApp – Chemical Resistance Chart**

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



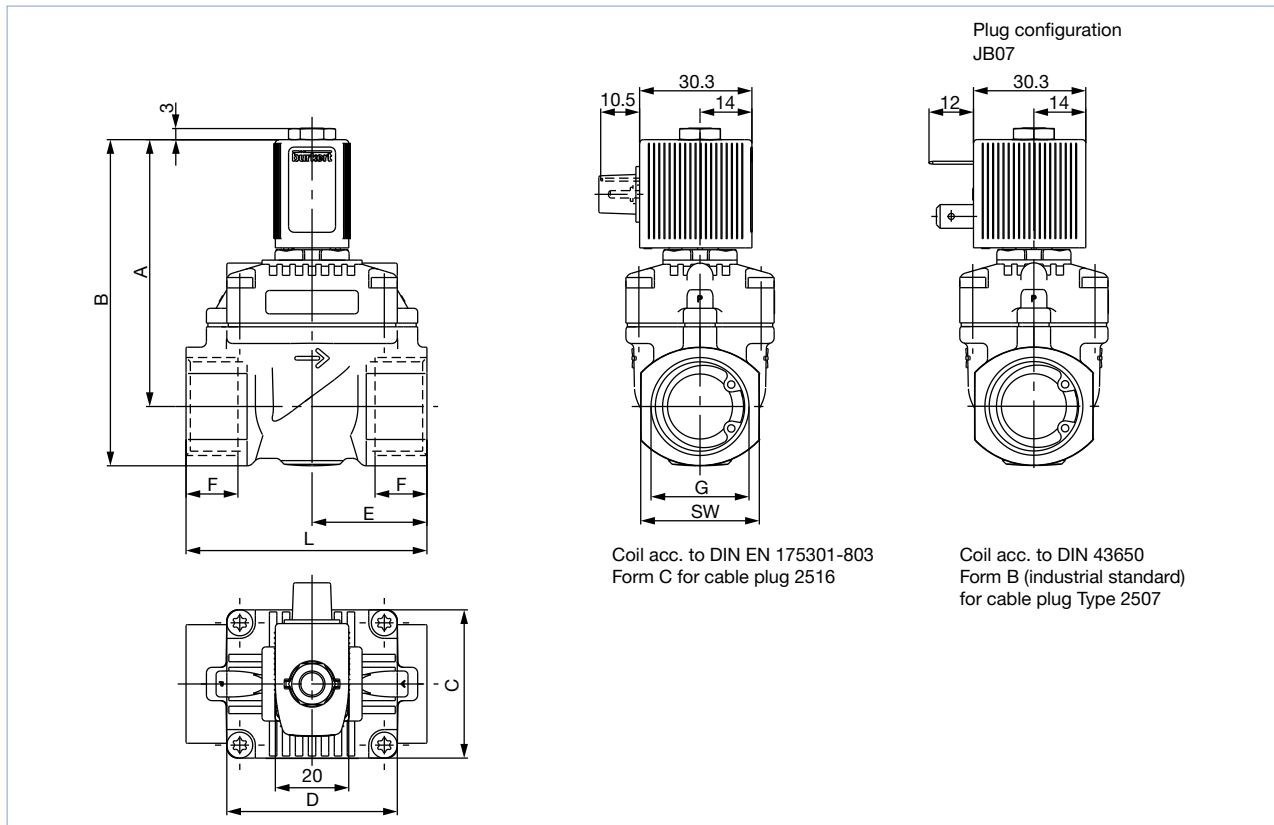
No	Element	Material
1	Locknut	Steel (thick-film passivated acc. to Rohs)
2	O-Ring	NBR, FKM, EPDM
3	Shading ring	Cu
4	Flange	Steel (thick-film passivated acc. to Rohs)
5	Diaphragm	NBR, FKM, EPDM
6	Bolt	Brass
7	Body	Brass
8	Diaphragm holder	Brass, PPS
9	Diaphragm support	PPS
10	Spring	Stainless steel 1.4310
11	Body cover	PPE/PA
12	Plunger	Stainless steel 1.4105
13	Spring	Stainless steel 1.4310
14	Coil DIN EN 175301 - 803 Form C DIN 43650 (industrial standard) Form B	PA (on request)  Epoxy

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## 4. Dimensions

**Note:**

- Dimensions in mm
- The dimensions F1 and G 1 apply to G-threads
- The dimensions F2 and G 2 apply to NPT-threads
- The dimensions F3 and G 3 apply to RC-threads



DN	A	B	C	D	E	F1	G1	F2	G2	F3	G3	L	SW
10	67.5	81.5	32	32	25	14	G 1/2	13.7	NPT 1/2	13.2	Rc 1/2	55	27
10	67.5	81.5	32	32	25	12	G 3/8	10.3	NPT 3/8	10.1	Rc 3/8	55	27
13	72	88	40	46	31	16	G 3/4	14	NPT 3/4	14.5	Rc 3/4	65	32
13	72	88	40	46	31	14	G 1/2	13.7	NPT 1/2	13.2	Rc 1/2	65	32
20	81	101.5	60	60	50	18	G 1	16.8	NPT 1	16.8	Rc 1	100	41
20	81	101.5	60	60	50	16	G 3/4	14	NPT 3/4	14.5	Rc 3/4	100	41