



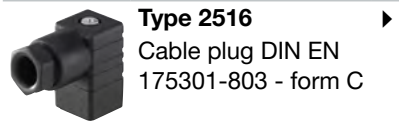
## Diaphragm valve 2/2 way servo-assisted

- Media separated
- Reduced power consumption
- Stainless steel housing for aggressive media
- Circuit function NC or NO



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

### Can be combined with



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

### Type description

2/2-way solenoid valve with servo-diaphragm and 3-way pilot control with medium separation. Available in the circuit functions NC and NO. The medium separation in the pilot valve enables the valve to be used for slightly aggressive medium. (e. g. deionised water).

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## 1. General technical data

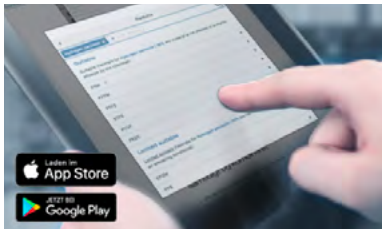
Product properties	
Dimensions	Detailed information can be found in chapter <a href="#">“4. Dimensions”</a> on page 5 .
Material	
Seal	NBR, EPDM, FKM
Body	Brass or stainless steel CF3M (similar to 316L)
Housing cover and internal part	PPE/PA Stainless steel 1.4404
Pilot flange body	PPS
Orifice	DN 10...DN 20
Circuit function	Detailed information can be found in chapter <a href="#">“2. Circuit functions”</a> on page 4.
Performance data	
Switching time	Opening: 0.1...0.5 Sek. Closing: 0.2...2.2 Sek.
Electrical data	
Operating voltage	24 V DC (3.4 W)
Duty cycle	100 % continuous rating (operating with 24 V DC) 40 %, 20 min. intermittent duty (operating with 110...120 V/UC, 230...240 V/UC)
Power consumption	For AC, use cable plug with rectifier 110...120 V/UC (4 W), 230...240 V/UC (4 W) (on request)
Voltage tolerance	± 10 %
Medium data	
Operating medium	
With NBR	Neutral medium, such as compressed air, water, hydraulic oil
With EPDM	Oil and fat-free medium, diluted alkaline solutions
With FKM	Per-solutions, oil, fat, diluted acids
Medium temperature	
With NBR	0 °C...+50 °C
With EPDM	- 10 °C...+50 °C
With FKM	0 °C...+50 °C
Process/Port connection & communication	
Electrical connection (Tag connector acc. to DIN EN 175301 - 803 Form C)	Tag connector sideways at 24 V DC Tag connector above at 110/230 V/UC (see <a href="#">“4. Dimensions”</a> on page 5)
Approvals and certificates	
Degree of protection	IP65 with cable plug
Environment and installation	
Installation position	As required, preferably with actuator upright
Ambient temperature	Max. + 55 °C

## 2. Circuit functions

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

## 3. Materials

### 3.1. Chemical Resistance Chart – Bürkert resistApp

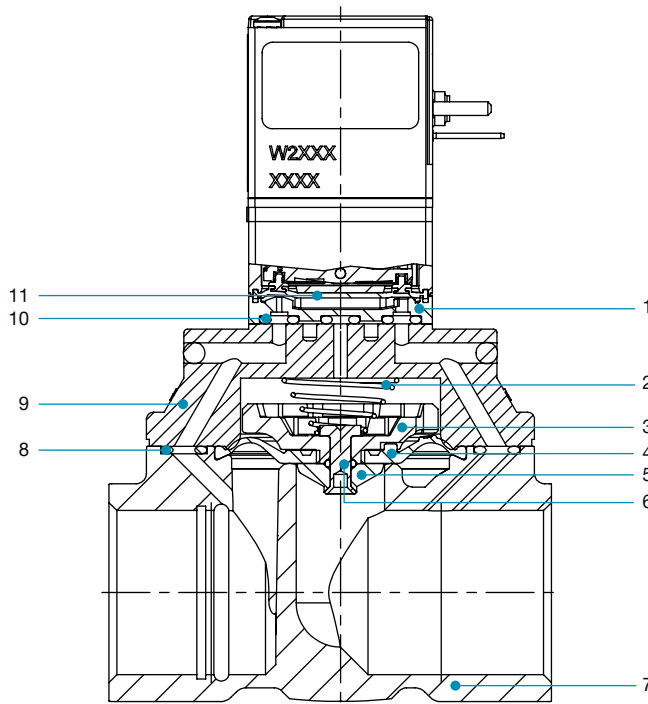


**Bürkert resistApp – Chemical Resistance Chart**

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

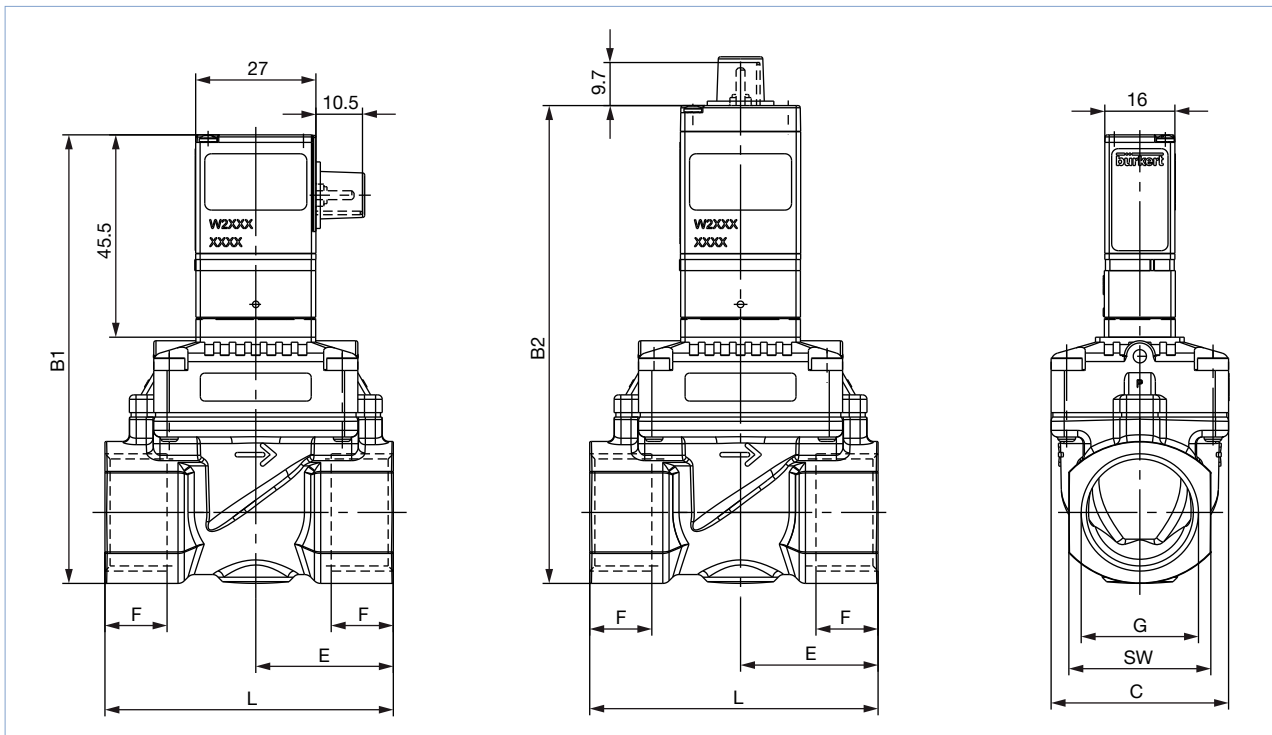


No.	Element	Material
1	Flange body	PPS
2	Pressure spring	Stainless steel 1.4310
3	Diaphragm support	PPS
4	Diaphragm	NBR, FKM or EPDM
5	Diaphragm holder	PPS
6	Bolt	Brass or stainless steel
7	Valve body	Brass, stainless steel CF3M (similar to 316L)
8	O-ring	FKM or EPDM
9	Cover	Stainless steel or PPE/PA
10	O-ring	NBR, FKM or EPDM
11	Separating diaphragm	FKM or EPDM

## 4. Dimensions

### Note:


Dimensions in mm



DN	G	Tag connectors sideways B1	Tag connectors above B2	C	E	F	L	SW
10	G 1/2	94.5	101	32	25	14	55	27
10	G 3/8	94.5	101	32	25	12	55	27
13	G 3/4	101	107.5	40	31	16	65	32
13	G 1/2	101	107.5	40	31	14	65	32
20	G 1	114.5	121	60	50	18	100	41
20	G 3/4	114.5	121	60	50	16	100	41

## 5. Ordering information

### 5.1. Bürkert eShop – Easy ordering and quick delivery




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### 5.2. Bürkert product filter



**Bürkert product filter – Get quickly to the right product**

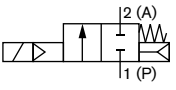
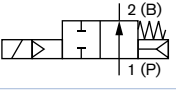
You want to select products comfortably based on your technical requirements? Use the Bürkert product filter and find suitable articles for your application quickly and easily.

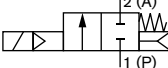


















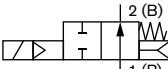


















[Try out our product filter](#)

### 5.3. Ordering chart

**Note:**

- Cable plug is not included in delivery. Please order separate, see **“5.4. Ordering chart accessories” on page 7** or separate data sheet **Type 2516** ▶.
- On request: 110...120 or 230...240 coils both with an integrated rectifier and a varistor. They are therefore suitable for use with both direct and alternating voltage. For this version, please use only the cable plug without electronics.

Circuit function	Pressure range	Orifice	Weight	Port connection	K <sub>v</sub> value water	Voltage/frequency	Article no. NBR seal	Article no. FKM seal	Article no. EPDM seal
	[bar]								
<b>Brass body, cover material PPE/PA, different sealing materials</b>									
<b>A, solenoid valve</b> 2/2 way Servo-controlled Normally closed 	0.2...10 <sup>1.1</sup>	10	0.31	G 3/8	1.9	024/DC	138930	138933	138936
				G 1/2	1.9	024/DC	138943	138946	138949
		13	0.44	G 1/2	3.6	024/DC	138956	138959	138962
				G 3/4	3.6	024/DC	138968	138971	138974
		20	0.85	G 3/4	8.3	024/DC	138980	138983	138986
				G 1	8.3	024/DC	138992	138995	138998
<b>B, solenoid valve</b> 2/2 way Servo-controlled Normally open 	0.2...6 <sup>1.1</sup>	10	0.31	G 3/8	1.9	024/DC	139602	139605	139608
				G 1/2	1.9	024/DC	139612	139615	139618
		13	0.44	G 1/2	3.6	024/DC	139622	139625	139628
				G 3/4	3.6	024/DC	139632	139635	139638
		20	0.85	G 3/4	8.3	024/DC	139642	139645	139648
				G 1	8.3	024/DC	139652	139655	139658

Circuit function	Pressure range	Orifice [mm]	Weight [kg]	Port connection	K <sub>v</sub> value water [m <sup>3</sup> /h]	Voltage/ frequency [V/Hz]	Article no. PPE/PA- Cover NBR-Seal	Article no. Stainless steel-Cover FKM-Seal	Article no. Stainless steel-Cover EPDM-Seal
	[bar]								
<b>Stainless steel body, different cover and sealing materials</b>									
<b>A, solenoid valve</b> 2/2 way Servo-controlled Normally closed 	0.2...10 <sup>1.1</sup>	10	0.31	G 3/8	1.9	024/DC	140693 	139578 	140669 
				G 1/2	1.9	024/DC	140696 	139582 	140673 
		13	0.44	G 1/2	3.6	024/DC	140699 	139586 	140677 
				G 3/4	3.6	024/DC	140702 	139590 	140681 
		20	0.85	G 3/4	8.3	024/DC	140705 	139594 	140685 
				G 1	8.3	024/DC	140708 	139598 	140689 
<b>B, solenoid valve</b> 2/2 way Servo-controlled Normally open 	0.2...6 <sup>1.1</sup>	10	0.31	G 3/8	1.9	024/DC	140735 	139662 	140711 
				G 1/2	1.9	024/DC	140738 	139666 	140715 
		13	0.44	G 1/2	3.6	024/DC	140741 	139670 	140719 
				G 3/4	3.6	024/DC	140744 	139674 	140723 
		20	0.85	G 3/4	8.3	024/DC	140748 	139678 	140727 
				G 1	8.3	024/DC	140751 	139682 	140731 

1.) A differential pressure of 0.5 bar is necessary to open to the full orifice.

#### Further versions on request




#### Voltage






Non standard voltages, 110...120 V, 230...240 V

#### 5.4. Ordering chart accessories

##### Cable plug Type 2516 acc. to DIN EN 175301 -803 Form C

##### Note:

- Delivery of cable plug includes a flat seal and a fixing screw.
- Further versions of cable plug with circuitry acc. to DIN EN 175 301 -803 Form C as well as detailed technical data, see datasheet **Type 2516** .

Cable plug	Version	Voltage	Article no.
	Without circuitry (standard)	0...250 V AC/DC	303141 
	With LED	12...24 V AC/DC	303145 
	With LED and varistor	12...24 V AC/DC	303148 
	With rectifier, LED and varistor	12...24 V AC/DC	303142 

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DTS 1000011052 EN Version: H Status: RL (released | freigegeben | validé) printed: 14.07.2022

