DATA SHEET

Type 6212

bürkert
FLUID CONTROL SYSTEMS

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 - connector shape 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).

DTS 1000011052 EN Version: G Status: RL (released | freigegeben | validé) printed: 29.01.2020

Visit product website ▸

Table of contents

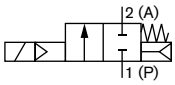
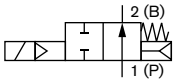
DTS 1000011052 EN Version: G Status: RL (released | freigegeben | validé) printed: 29.01.2020

1. General Technical Data

Product properties	
Dimensions	Detailed information can be found in chapter “4. Dimensions” on page 5 .
Material	
Seal	NBR, EPDM, FKM
Body	Brass or stainless steel CF3M (ähnlich 316L)
Body cover and internal part	PPE/PA Stainless steel 1.4404
Pilot flange body	PPS
Nominal diameter	DN 10…DN 20
Switching function	Detailed information can be found in chapter “2. Circuit functions” on page 4.
Performance data	
Switching times	Opening: 0.1…0.5 Sek. Closing: 0.2…2.2 Sek.
Electrical data	
Operating voltage	24 V DC (3.4 W)
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 %
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)
Medium data	
Medium temperature	
With NBR	0 °C…+50 °C
With EPDM	-10 °C…+50 °C
With FKM	0 °C…+50 °C
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
Process/Port connection & communication	
Electrical connection (Tag connector acc. to DIN EN 175301-803 Form C)	Tag connector sidewards at 24 V DC Tag connector above at 110/230 V/UC (see “4. Dimensions” on page 5)
Environment and installation	
Installation position	As required, preferably with actuator upright
Ambient temperature	Max. +55 °C
Degree of protection	IP65 with cable plug

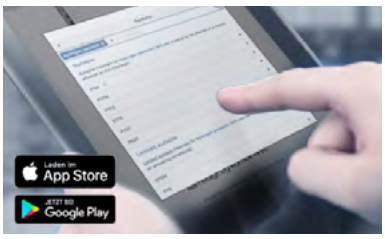
DTS 1000011052 EN Version: G Status: RL (released | freigegeben | validé) printed: 29.01.2020

2. Circuit functions

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

3. Materials

3.1. Chemical Resistance Chart – Bürkert resistApp

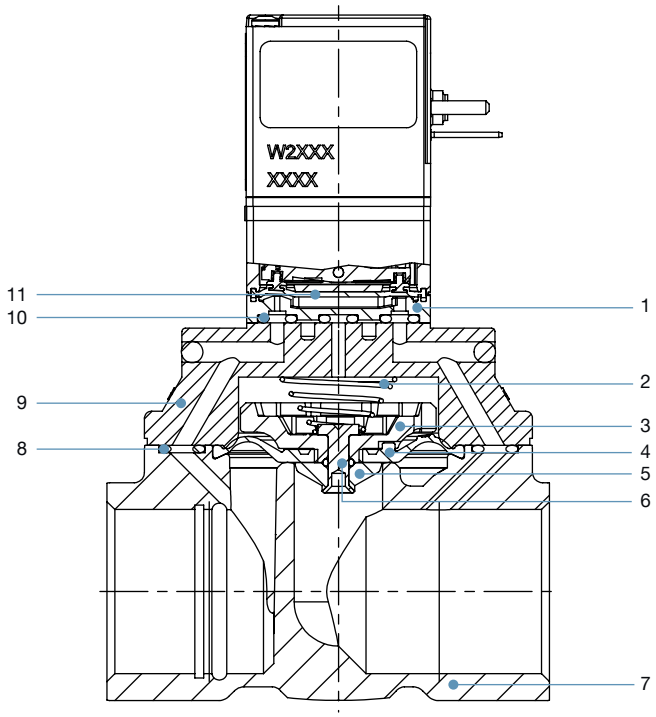


Bürkert resistApp – Chemical Resistance Chart

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

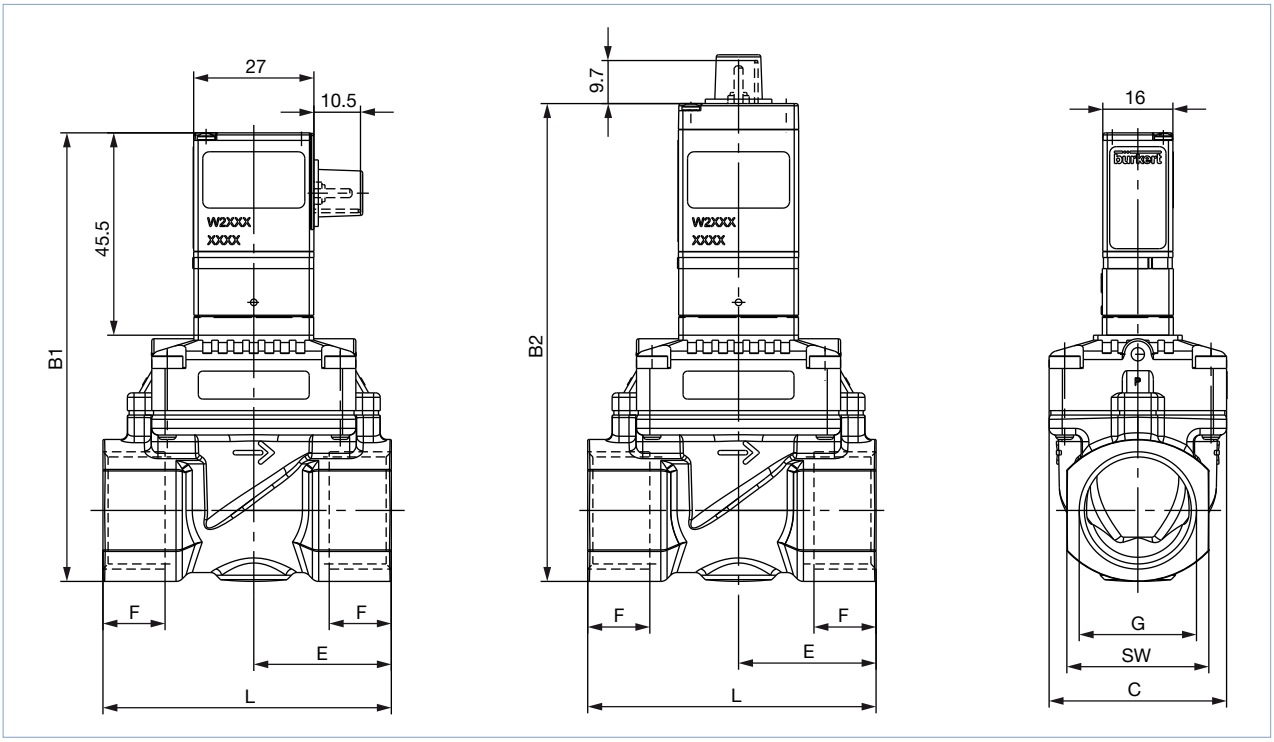


No.	Element	Material
1	Flange body	PPS
2	Pressure spring	Stainless steel 1.4310
3	Diaphragm support	PPS
4	Diaphragm	NBR, FKM or EPDM
5	Diaphragm holder	PPS
6	Bolt	Brass or stainless steel
7	Valve body	Brass, stainless steel CF3M (similar to 316L)
8	O-ring	FKM or EPDM
9	Cover	Stainless steel or PPE/PA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

DTS 1000011052 EN Version: G Status: RL (released | freigegeben | validé) printed: 29.01.2020

4. Dimensions

Note:
Dimensions in mm



DN	G	Tag connectors sidewards	Tag connectors above	C	E	F	L	SW
		B1	B2					
10	G ½	94.5	101	32	25	14	55	27
10	G ⅜	94.5	101	32	25	12	55	27
13	G ¾	101	107.5	40	31	16	65	32
13	G ½	101	107.5	40	31	14	65	32
20	G 1	114.5	121	60	50	18	100	41
20	G ¾	114.5	121	60	50	16	100	41

DTS 1000011052 EN Version: G Status: RL (released | freigegeben | validé) printed: 29.01.2020