



## Pneumatically operated 2/2-way Diaphragm Valve with plastic body

- Control function convertible
- Can be used for aggressive medium
- Compact design



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

### Can be combined with



#### Type 6014

Plunger valve 3/2-way direct-acting



#### Type 7012

Direct-acting 3/2-way plunger valve



#### Type 8644

AirLINE SP electropneumatic automation system

### Type description

2/2-way plastic diaphragm valve, pilot operated with pneumatic actuator and spring return. Used for polluted medium in process and water technology.

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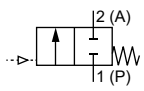
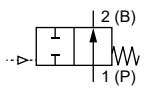
## Table of contents

<b>1. General technical data</b>	<b>3</b>
<b>2. Control functions</b>	<b>3</b>
<b>3. Approvals and conformities</b>	<b>4</b>
3.1. General notes .....	4
3.2. Conformity .....	4
3.3. Standards .....	4
<b>4. Materials</b>	<b>4</b>
4.1. Bürkert resistApp .....	4
<b>5. Dimensions</b>	<b>5</b>
5.1. DN 15, screwed connection with Ø 20 threaded socket .....	5
5.2. DN 12, G 3/8 threaded socket, Ø 16 glued socket connection or weld socket connection .....	5
<b>6. Performance specifications</b>	<b>6</b>
6.1. Pressure temperature diagram .....	6
6.2. Pilot pressure diagram .....	6
<b>7. Ordering information</b>	<b>7</b>
7.1. Bürkert eShop .....	7
7.2. Bürkert product filter .....	7
7.3. Ordering chart .....	7
7.4. Ordering chart accessories .....	8
3/2-way pilot valve <b>Typ 7012</b> with plug pattern: Form B .....	8
Replacement diaphragms for all nominal diameters .....	8
Cable plug Type 2507 according to industry standard connector Form B .....	8

**1. General technical data**

Product properties	
Dimensions	Further information can be found in chapter <b>"5. Dimensions"</b> on page 5.
Material	
Body	PVC-U, PP
Actuator	PP, glass-fibre reinforced
Seal	EPDM
Performance data	
Pilot pressure	Max. 7 bar, Further information can be found in chapter <b>"6.1. Pressure temperature diagram"</b> on page 6
Medium data	
Operating medium	Neutral or aggressive mediums that do not attack the body and seal materials
Medium temperature	Further information can be found in chapter <b>"6.1. Pressure temperature diagram"</b> on page 6.
Control medium	Lubricated/non lubricated compressed air and other neutral medium (e.g. water)
Process/Port connection & communication	
Port connection	Further information can be found in chapter <b>"7.3. Ordering chart"</b> on page 7.
Environment and installation	
Installation position	See <b>operating manual Type 3230</b> ►
Ambient temperature	0 °C...+ 60 °C

**2. Control functions**

Control function	Description
	<b>Control function A (CF A)</b> Pneumatically operated 2/2-way on/off valve Flow direction above seat Normally closed by spring force
	<b>Control function B (CF B)</b> Single-acting actuator for pneumatically operated 2/2-way on/off valve Normally opened by spring force

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### 3. Approvals and conformities

#### 3.1. General notes

- The approvals and conformities listed below must be stated when making enquiries. This is the only way to ensure that the product complies with all required specifications.
- Not all available versions can be supplied with the below mentioned approvals or conformities.

#### 3.2. Conformity

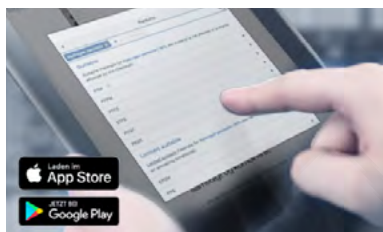
In accordance with the Declaration of Conformity, the product is compliant with the EU Directives.

#### 3.3. Standards

The applied standards which are used to demonstrate compliance with the EU Directives are listed in the EU-Type Examination Certificate and/or the EU Declaration of Conformity.

### 4. Materials

#### 4.1. 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.

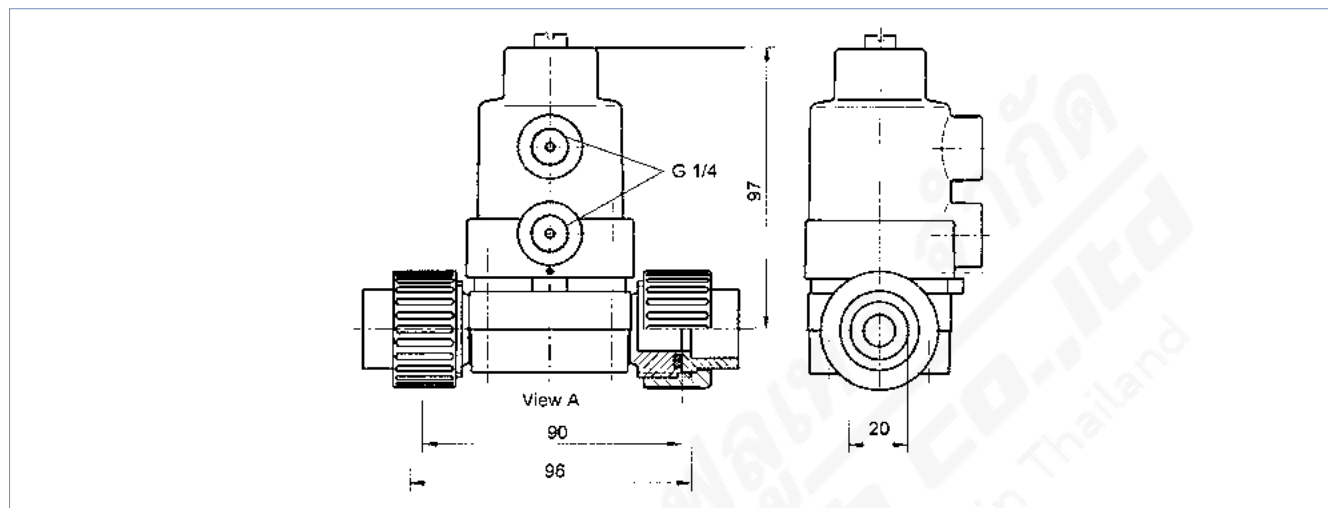
[Start chemical resistance check](#)

## 5. Dimensions

### 5.1. DN 15, screwed connection with Ø 20 threaded socket

**Note:**

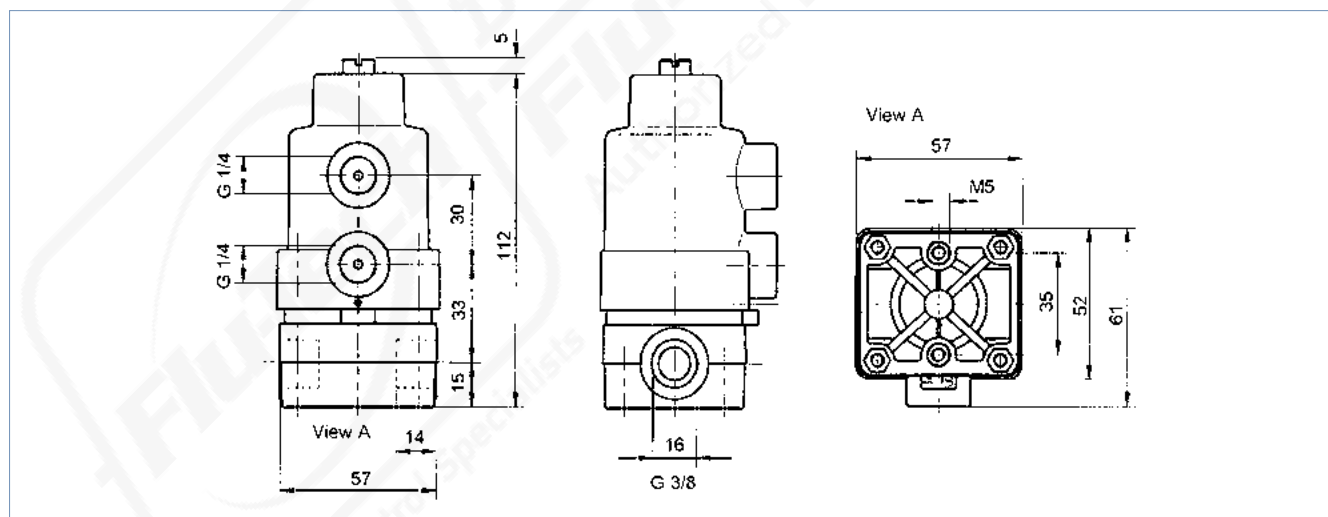
Dimensions in mm



### 5.2. DN 12, G 3/8 threaded socket, Ø 16 glued socket connection or weld socket connection

**Note:**

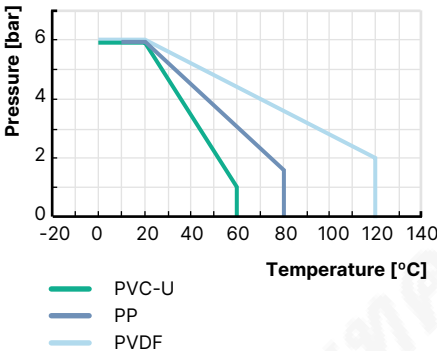
Dimensions in mm



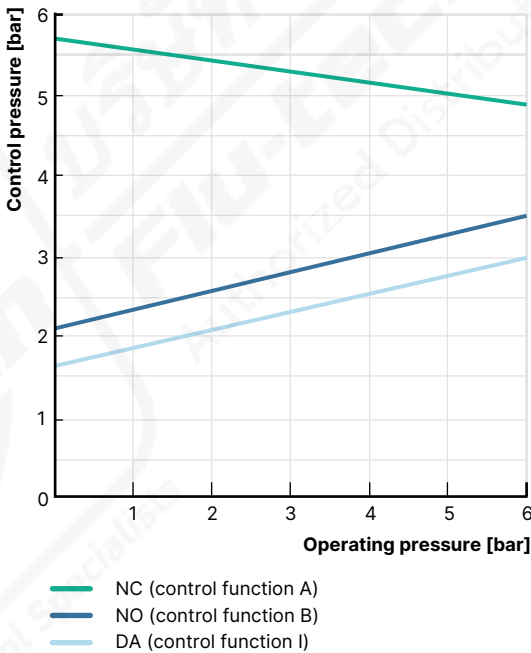
6. Performance specifications

6.1. Pressure temperature diagram

**Note:**  
Depending on the body materials



6.2. Pilot pressure diagram



## 7. Ordering information

### 7.1. Bürkert eShop



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### 7.2. Bürkert product filter



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

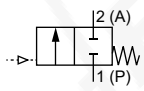
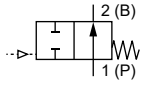
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### 7.3. Ordering chart







#### Note:

- All valves with EPDM diaphragm
- The permissible nominal pressure decreases with increasing medium temperature (see “6.1. Pressure temperature diagram” on page 6).

Control function	Orifice	K <sub>v</sub> value water	Pressure range at + 20 °C	Body material	Port connection	Article no.
	[mm]					
<b>A (CF A)</b> Pneumatically operated 2/2-way on/off valve Flow direction above seat Normally closed by spring force 	12	2.8	0...6	PVC-U	Ø 16 glued socket	784822
					G 3/8 threaded socket	784824
				PP	Ø 16 glued socket	784828
					G 3/8 threaded socket	784830
	15	3.5	0...6	PVC-U	Ø 20 glued socket	784826
				PP	Ø 20 true union weld	784832
<b>B (CF B)</b> Single-acting actuator for pneumatically operated 2/2-way on/off valve Normally opened by spring force 	12	2.8	0...6	PVC-U	Ø 16 glued socket	784823
					G 3/8 threaded socket	784825
				PP	Ø 16 true union weld	784829
					G 3/8 threaded socket	784831
	15	3.5	0...6	PVC-U	Ø 20 glued socket	784827
				PP	Ø 20 true union weld	784833

#### 7.4. Ordering chart accessories

##### 3/2-way pilot valve Typ 7012 with plug pattern: Form B

Pressure inlet P (valve body)	Service port A (banjo bolt)	Nominal diameter	Q <sub>Nn</sub> value air	Voltage	Frequency	Electrical power	Pressure range <sup>2.)3.)</sup>	Article no.
		[mm]	[l/min]			[W]	[bar]	
G 1/8"	G 1/4"	1.2	35	24 V	DC	5	0...10	20082715 
G 1/8"	G 1/4"	1.2	35	230 V	50 Hz	4	0...11	20096741 
Swivel connector Ø 6 mm <sup>4.)</sup>	G 1/4"	1.2	35	24 V	DC	5	0...10	20083551 
Swivel connector Ø 6 mm <sup>4.)</sup>	G 1/4"	1.2	35	230 V	50 Hz	4	0...11	20096742 
G 1/4"	G 1/4"	1.2	35	24 V	DC	5	0...10	20078886 
G 1/4"	G 1/4"	1.2	35	230 V	50 Hz	4	0...11	20096744 




1.) For P1: 6 bar absolute and P2: 5 bar absolute

2.) Pressure specification: Overpressure to atmospheric pressure and medium air

3.) Number of switching cycles under laboratory conditions (FKM seal, lubricated air, unpressurised, DC): 5 million. Please note that increasing the switching pressure can reduce the service life of the seat seal.

4.) Screw-in swivel connector with Ø 6 mm push-in is supplied loose





##### Replacement diaphragms for all nominal diameters

Description	Material	Article no.
Replacement diaphragms for all nominal diameters	EPDM	789409 
	FKM	789661 
	Laminate of Advanced PTFE and EPDM (EK)	789597 

##### Cable plug Type 2507 according to industry standard connector Form B

###### Note:

- Delivery of cable plug includes a flat seal and a fixing screw.
- Further versions of cable plug with circuitry according to industry standard connector Form B as well as detailed technical data (see datasheet **Type 2507** ▶).

Cable plug	Version	Voltage	Article no.
	Cable plug 20 mm, 3-pin (2 conductors + protective conductors), form B in accordance with industry standard, standard and/or no wiring (Type 2507)	2...250 V AC/DC	423845 
	Cable plug, 20 mm, 3-pin (2 conductors + protective conductors), form B in accordance with industry standard, with LED (Type 2507)	24 V AC/DC	423849 
	Cable plug 20 mm, 3-pin (2 conductors + protective conductors), form B in accordance with industry standard, with LED and varistor (Type 2507)	12...24 V AC/DC	423851 
	Cable plug 20 mm, 3-pin (2 conductors + protective conductors), form B in accordance with industry standard, with bridge rectifier, LED and varistor (Type 2507)	12...24 V AC/DC	423853 