






## Pneumatically operated 2/2 way valve with PTFE bellow

- High Medium resistance
- Easy to clean for hygienic applications
- Long service life
- Compact



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

### Can be combined with

	<b>Type 8652</b> AirLINE - the valve island optimised for process automation	▶
	<b>Type 8036</b> Inline flowmeter with paddle wheel, ELEMENT design	▶
	<b>Type 2380</b> 2/2 way Bellow Control Valve	▶

### Type description

The valve consists of a pneumatically piston actuator with return spring, a stainless steel body and PTFE bellows. The PTFE bellows are used for the separation of the medium. With the appropriate installation (body to bottom) the valve is self-draining. The materials used and the internal contours are simple to clean (CIP and SIP). The valve is suitable for food technology. The modular structure permits configuration with different armatures and customized port connectors. The pneumatic actuator is servo assisted by a pilot valve, a valve block or similar.

## Table of contents

<b>1. General technical data</b>	<b>3</b>
<b>2. Approvals</b>	<b>4</b>
<b>3. Materials</b>	<b>4</b>
3.1. Chemical Resistance Chart – Bürkert resistApp.....	4
3.2. Material specifications .....	4
<b>4. Dimensions</b>	<b>5</b>
4.1. Valve with PTFE bellows.....	5
4.2. Flange interface on valve.....	5
4.3. Various drive versions.....	6
<b>5. Performance specifications</b>	<b>6</b>
5.1. Pressure temperature diagram.....	6
<b>6. Ordering information</b>	<b>7</b>
6.1. Bürkert eShop – Easy ordering and quick delivery.....	7
6.2. Bürkert product filter.....	7
6.3. Ordering chart.....	7
All valves with pilot air ports G 1/8 and actuator body in stainless steel.....	7

## 1. General technical data

Product properties	
Dimensions	Detailed information can be found in chapter <a href="#">“4. Dimensions” on page 5.</a>
Material	
Body	Stainless steel 316Ti (1.4571) for flange 316L (1.4404)
Actuator	Stainless steel 304L (1.4301)
Bellows	Advanced PTFE
Wetted materials	Stainless steel 316Ti/316L, advanced PTFE
Flow direction	Below seat (pressure on port connection 2)
Nominal diameter	DN10, DN6 (flange), others on request
Position detection <sup>1.)</sup>	Reed contact (two wire, closer), cable length: 3 m
Actuator size	Piston diameter 28 mm
Standard surface quality	Ra=0.8 µm (further surfaces on request)
Performance data	
Back pressure	Tight to 8 bar
Pilot air pressure	4.5... 10 bar
K <sub>v</sub> value	See <a href="#">“6.3. Ordering chart” on page 7</a>
Seat leakage	5 N <sub>m</sub> /min, measured with air, 8 bar below seat
Pressure range	Vacuum up to 8 bar
Medium data	
Medium	Neutral to aggressive gases and liquids
Medium temperature	See <a href="#">“4.1. Valve with PTFE bellows” on page 5</a>
Control medium	Neutral gases, air
Process/Port connection & communication	
Port connection	Threaded port G 3/8, weld end, flange connection
Pilot air ports	Threaded port G 1/8
Environment and installation	
Installation position	Upright assembly for self-draining (body to bottom)
Ambient temperature	Max. +90 °C

1.) Optional actuator versions

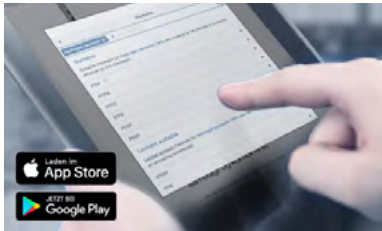
## 2. Approvals

Approvals	Description
	<b>ATEX/IECEX<sup>1.)</sup></b> EPS 18 ATEX 2 008 X II 2G Ex h IIC T4 Gb/II 2D Ex h IIIC T135 °C Db IECEX EPS 18.0007X Ex h IIC T4 Gb/Ex h IIIC T135 °C Db
Certificates	Description
<b>FDA</b>	Diaphragms comply with the Code of Federal Regulations published by the FDA (Food and Drug Administration, USA).
Standards	Description
	Diaphragms are acc. to USP Class VI tested.
	EC Regulation 1935/2004/EG

1.) Only in conjunction with variable code "PX51"

## 3. Materials

### 3.1. Chemical Resistance Chart – Bürkert resistApp

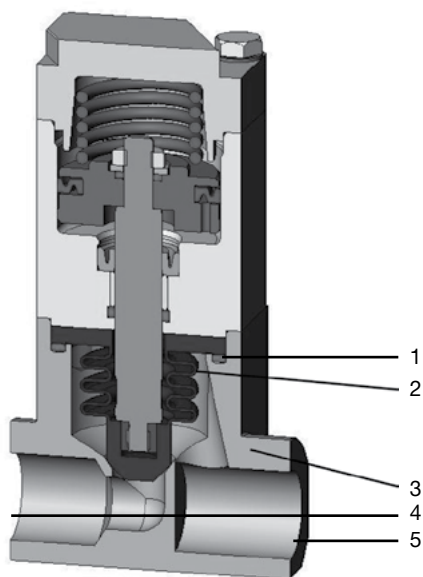


**Bürkert resistApp – Chemical Resistance Chart**

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



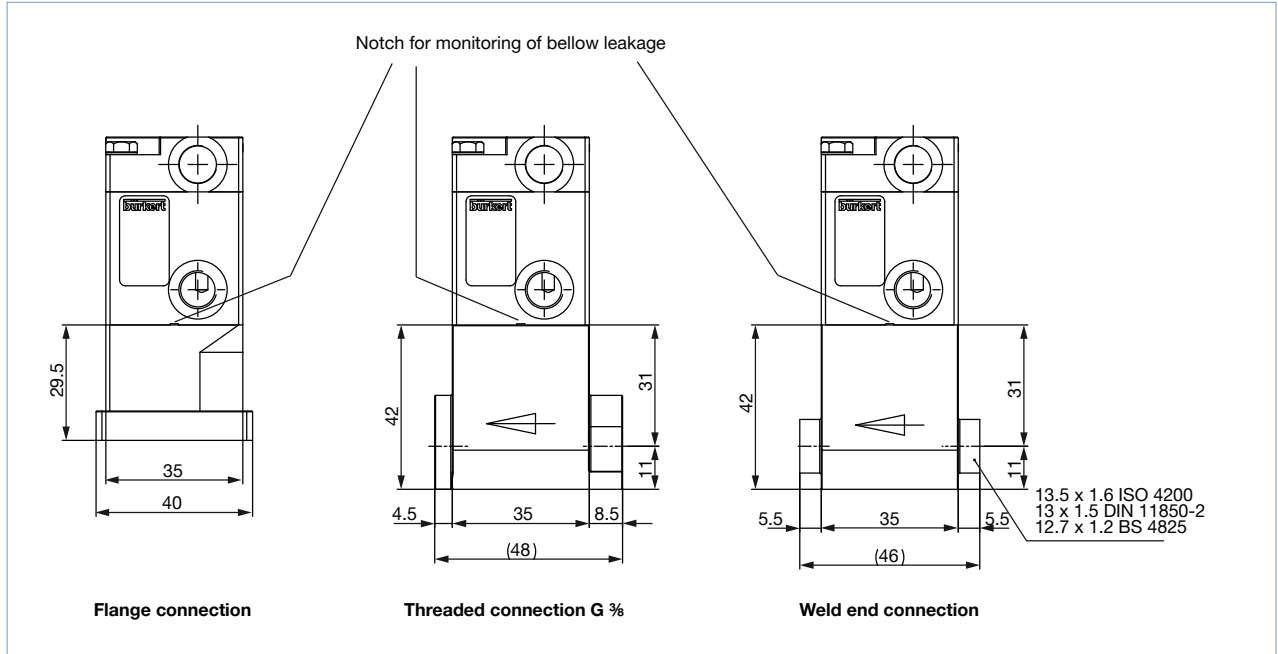
No.	Element	Material
1	O-Ring	FKM (not in contact with medium)
2	Bellows	Advanced PTFE
3	Body	Stainless steel 316L (1.4404)
4	Port connection 2	Stainless steel 316L (1.4404)
5	Port connection 1	Stainless steel 316L (1.4404)

## 4. Dimensions

### 4.1. Valve with PTFE bellows

**Note:**

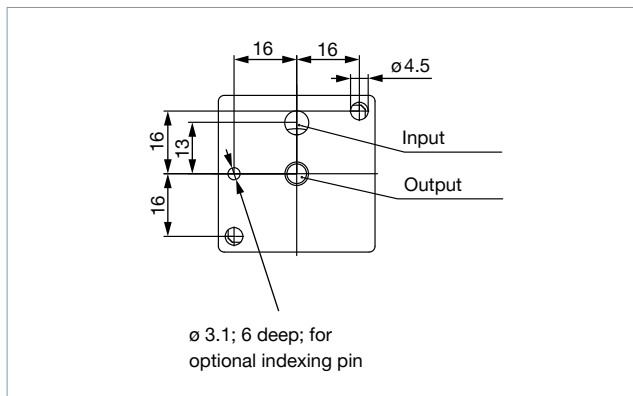
Dimensions in mm



### 4.2. Flange interface on valve

**Note:**

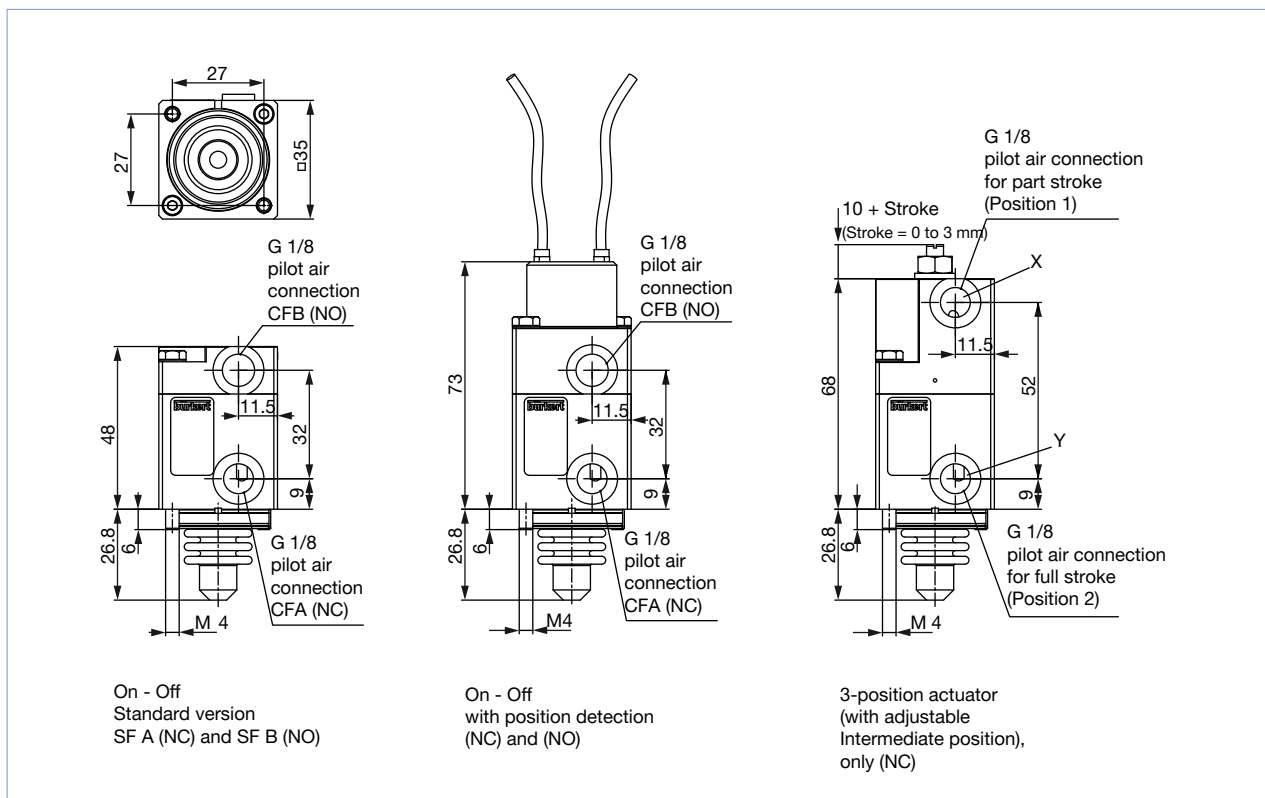
Dimensions in mm



### 4.3. Various drive versions

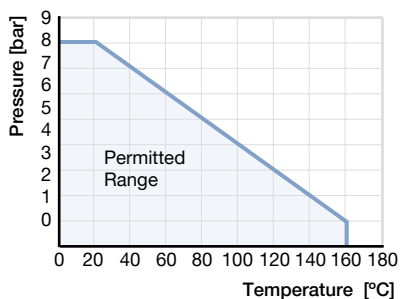
**Note:**

- Dimensions in mm
  - Functions of the valve with intermediate position (=3-position actuator)
    - Closed; without control air, only by spring force
    - Partial stroke (position 1); control air at X + Y
    - Full stroke (position 2); pilot air at Y
    - Valves with flow direction above the seat can only be used for liquid media to a limited extent.
- There is a risk of waterhammer!**



## 5. Performance specifications

### 5.1. Pressure temperature diagram



DTS 1000104889 EN Version: L Status: RL (released | freigegeben | valide) printed: 07.06.2021

## 6. Ordering information

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



#### Bürkert eShop – Easy ordering and fast delivery

You want to find your desired Bürkert product or spare part quickly and order directly? Our online shop is available for you 24/7. Sign up and enjoy all the benefits.

[Order online now](#)

### 6.2. 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.

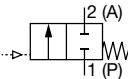
[Try out our product filter](#)

### 6.3. Ordering chart

All valves with pilot air ports G 1/8 and actuator body in stainless steel

On request:

- Normally open version (control function B)
- Mechanical stroke limiter for safer flow adjustment (variable Code: MJ33)
- 3-position actuator (control function A)

Circuit function	Actuator version	Nominal diameter [mm]	K <sub>v</sub> -Wert <sup>1.)</sup> [m <sup>3</sup> /h]	Medium connection	Article no.
SF: A  Pneumatically operated ON/OFF valve, 2/2 way, flow direction above seat, normally closed by spring force	ON/OFF	10	1.14	Threaded G 3/8	180729
		10	1.14	Weld end acc. to BS 4825 (12.7 × 1.2)	179582
		10	1.14	Weld end acc. to ISO 4200 (13.5 × 1.6)	186407
		10	1.14	Weld end acc. to DIN 11850-2 (13 × 1.5)	186409
		6	0.64	Flange	182863
		–	–	Without armature (only actuator)	180555

1.) Measurement at +20 °C, 1 bar pressure at valve inlet and free outlet



# Bürkert – Close to You

For up-to-date addresses  
please visit us at  
[www.burkert.com](http://www.burkert.com)

DTS 1000104889 EN Version: L Status: RL (released | freigegeben | validé) printed: 07.06.2021

Austria  
Belgium  
Czech Republic  
Denmark  
Finland  
France  
Germany  
Italy  
Netherlands

Norway  
Poland  
Spain  
Sweden  
Switzerland  
Turkey  
United Kingdom

Russia

Canada  
USA

Brazil  
Uruguay

South Africa

United  
Arab  
Emirates

Australia  
New Zealand

China  
Hong Kong  
India  
Japan  
Korea  
Malaysia  
Philippines  
Singapore  
Taiwan