

### Pinch valve with pneumatic actuator

- Adaptable with CLASSIC or ELEMENT actuators and with corresponding Bürkert automation components
- Simple one-handed operation of the locking mechanism
- Adaptable to different hose dimensions

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

#### Can be combined with

	<b>Type 8690</b> Pneumatic control unit for decentralised automation of process valves ELEMENT	▶
	<b>Type 8691</b> Control head for decentralised automation of ELEMENT process valves	▶
	<b>Type 8652</b> AirLINE – the valve island optimised for process automation	▶
	<b>Type BBS-04</b> Platinum-cured peroxide-free silicone hose	▶

#### Type description

The externally controlled hose pinch valve Type 2707 consists of a pneumatic actuator (optionally ELEMENT or CLASSIC), a housing with compressor and an interchangeable hose holder that can be adapted to the hose size. The Bürkert pinch valve has been specially developed for single-use systems in biopharmaceutical production processes. Typical applications are chromatography skids, tangential flow filtration (TFF) skids, single-use bioreactors as well as filling and dosing skids. Installation on racks, e.g. for transfer and/or distribution. Manufactured for modulating applications (ELEMENT actuator) or On/Off applications (CLASSIC actuator). The compressor and the hose holder can be exchanged in a few simple steps so that the pinch valve can be adapted to different hose dimensions. Compact, smooth, highly integrated system consisting of a valve and an automation unit. High chemical resistance.

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## 1. General technical data

Product properties	
Dimensions	Further information can be found in chapter "4. Dimensions" on page 6.
<b>Material</b>	
Block body (VH) <sup>1)</sup>	Bloc material 1.4435 according to DIN EN 10088 and 316L according to ASTM A479 / A479M
Tube	Provided by customer
<b>CLASSIC</b>	
Actuator	PA
<b>ELEMENT</b>	
Actuator	PPS
Actuator cover	Stainless steel 1.4561 (316Ti)
Performance data	
Operating pressure	See tube manufacturer's specifications
Control pressure <sup>2)</sup>	4.3...10.0 bar (actuator size D/actuator variant C) 4.5...10.0 bar (actuator size E/actuator variant C) 5.2...10.0 bar (actuator size D/actuator variant G/pilot air port FA01 and FA02) 5.0...10.0 bar (actuator size M/actuator variant G/pilot air port FA01 and FA02) 5.5...7.0 bar (actuator size D and M/actuator variant G/pilot air port FA03)
Medium data	
Operating medium	See tube manufacturer's specifications
Control medium	Neutral gases, air
Medium temperature	See tube manufacturer's specifications
Process/Port connection and communication	
Outer hose diameter	6.35 mm...22.3 mm (1/4"...7/8")
Inner hose diameter	3.18 mm...12.7 mm (1/8"...1/2")
Further information can be found in chapter "4. Dimensions" on page 6.	
Environment and installation	
Ambient temperature	Actuator: 0...+ 60 °C Tube: see tube manufacturer's specification

1.) This information is part of the product key, see "5.3. Bürkert Product Enquiry Form" on page 8.

2.) Further variants on request

## 2. Approvals and conformities

### 2.1. 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 variants can be supplied with the below mentioned approvals or conformities.



### 2.2. Conformity

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

### 2.3. 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.

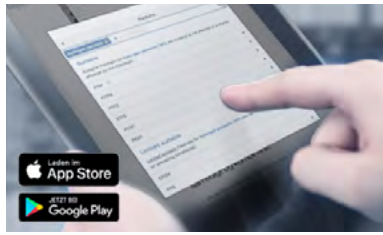
### 2.4. Explosion protection

Approval	Description																
 	<p><b>Optional: Explosion protection (valid for the variable code PX51)</b> As a category 2 device suitable for zone 1/21 and zone 2/22.</p> <p><b>ATEX:</b> EPS 18 ATEX 2 008 X II 2G Ex h IIC T4...T2 Gb II 2D Ex h IIC T135 °C...T300 °C Db</p> <p><b>IECEx:</b> IECEx EPS 18.0007X Ex h IIC T4...T2 Gb Ex h IIC T135 °C...T300 °C Db</p> <table border="1"> <thead> <tr> <th>Temperature class</th> <th>T2</th> <th>T3</th> <th>T4</th> </tr> </thead> <tbody> <tr> <td>Maximum surface temperature</td> <td>+ 300 °C</td> <td>+ 200 °C</td> <td>+ 135 °C</td> </tr> <tr> <td>Ambient temperature</td> <td>- 40...+ 130 °C</td> <td>- 40...+ 130 °C</td> <td>- 40...+ 100 °C</td> </tr> <tr> <td>Maximum medium temperature</td> <td>+ 285 °C</td> <td>+ 185 °C</td> <td>+ 125 °C</td> </tr> </tbody> </table> <p><b>Note:</b> The ambient and medium temperature range may be limited by non-ex-relevant specifications. Observe the Operating Instructions.</p>	Temperature class	T2	T3	T4	Maximum surface temperature	+ 300 °C	+ 200 °C	+ 135 °C	Ambient temperature	- 40...+ 130 °C	- 40...+ 130 °C	- 40...+ 100 °C	Maximum medium temperature	+ 285 °C	+ 185 °C	+ 125 °C
Temperature class	T2	T3	T4														
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### 3. Materials

#### 3.1. Bürkert resistApp



#### Bürkert resistApp – Chemical resistance chart

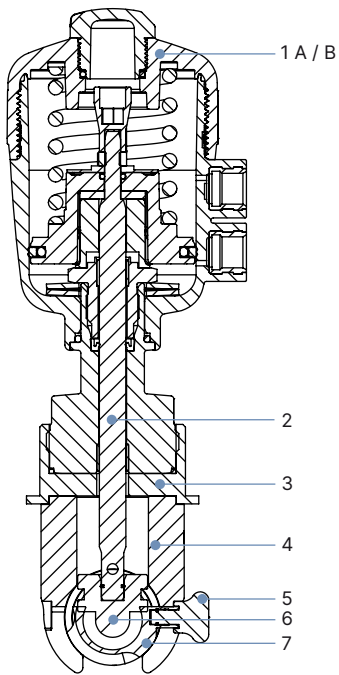
You want to ensure the reliability and durability of the materials in your individual application case? Verify your combination of media and materials on our website or in our resistApp.

[Start chemical resistance check](#)

#### 3.2. Material specifications

**Note:**

The exemplary representation may differ from the actual product.



No.	Element	Material
<b>1A</b>	CLASSIC actuator	See "1. General technical data" on page 3
<b>1B</b>	ELEMENT actuator	See "1. General technical data" on page 3
<b>2</b>	Spindle	Stainless steel 316L
<b>3</b>	Mounting plate	Stainless steel 316L
<b>4</b>	Valve body	Stainless steel 316L
<b>5</b>	Handle	Stainless steel 316L
<b>6</b>	Compressor piece	Stainless steel 316L
<b>7</b>	C-shape holder	Stainless steel 316L

## 4. Dimensions

### 4.1. Overview

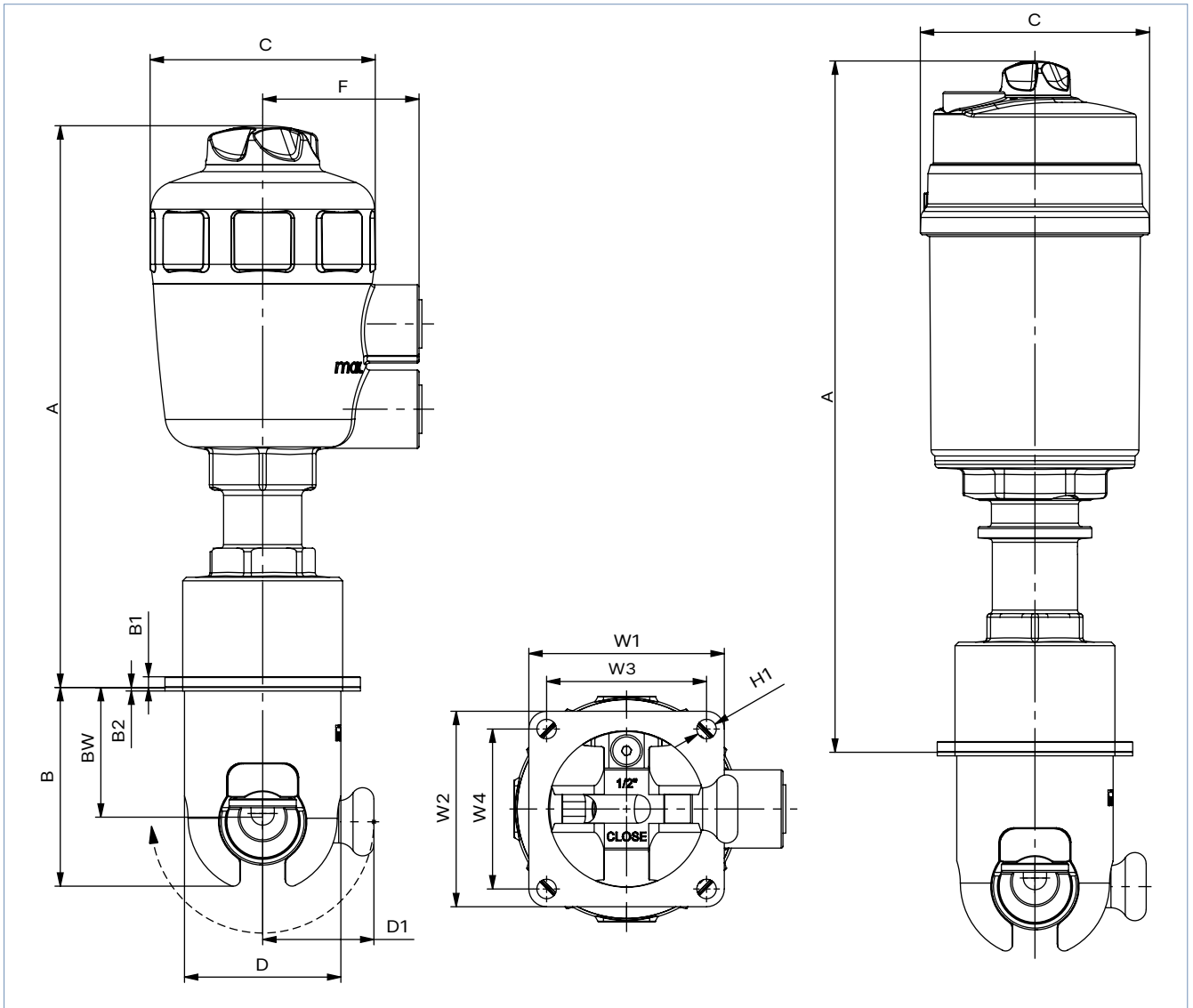
Actuator size	Tube inside diameter [mm (inch)]	Tube outside diameter						
		6.35 (1/4") <sup>1)</sup>	9.53 (3/8") <sup>1)</sup>	11.1 (7/16") <sup>1)</sup>	12.7 (1/2") <sup>1)</sup>	15.8 (5/8")	19.1 (3/4")	22.3 (7/8")
50 (D)	3.18 (1/8")	X	X	-	-	-	-	-
	6.35 (1/4")	-	X	X	X	-	-	-
63 (E), 70 (M)	9.53 (3/8")	-	-	-	-	X	-	-
	12.7 (1/2")	-	-	-	-	-	X	X

1.) Available in 2025

X = available

- = not available

4.2. General dimensions



Valve actuator series	Actuator size	A	B	B1	B2	BW	C	D	D1	F	W1	W2	W3	W4	H1
CLASSIC	50 (D) <sup>1.)</sup>	158	56	3	1	36 <sup>2.)</sup>	63	44	31.5	44	55	55	45	45	5.5
	63 (E)	187	64	3	1	43 <sup>2.)</sup>	80	54	36.5	50.5	65	65	55	55	5.5
ELEMENT	50 (D) <sup>1.)</sup>	186	56	3	1	36 <sup>2.)</sup>	64.5	44	31.5	-	55	55	45	45	5.5
	70 (M)	-	64	3	1	43 <sup>2.)</sup>	91	54	36.5	-	65	65	55	55	5.5

1.) Available in 2025

2.) Average measure

## 5. Ordering information

### 5.1. Bürkert eShop



#### Bürkert eShop – Easy ordering and quick 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](#)

### 5.2. Bürkert product filter



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

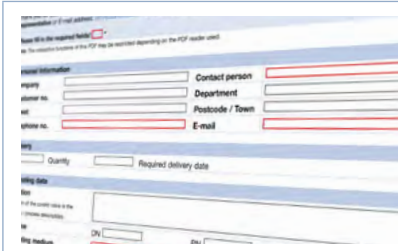
You want to select products comfortably based on your technical requirements? Use the Bürkert product filter and find suitable articles for your application quickly and easily.

[Try out our product filter](#)

### 5.3. Bürkert Product Enquiry Form

**Note:**

Please see our Product Enquiry Form for a full explanation of our specification key.



#### Bürkert Product Enquiry Form – Your enquiry quickly and compactly

Would you like to make a specific product enquiry based on your technical requirements? Use our Product Enquiry Form for this purpose. There you will find all the relevant information for your Bürkert contact. This will enable us to provide you with the best possible advice.

[Fill out the form now](#)



5.4. Ordering chart

Valve actuator series	Description	Article no.
CLASSIC	2707-A2-0603VV-PA00-VA-C-D-E0N3-AB02 <sup>1)</sup>	93219096
	2707-A2-0903VV-PA00-VA-C-D-E0N3-AB02 <sup>1)</sup>	93219107
	2707-A2-1206VV-PA00-VA-C-D-E0N3-AB02 <sup>1)</sup>	93219108
	2707-A2-0906VV-PA00-VA-C-D-E0N3-AB02 <sup>1)</sup>	93219109
	2707-A2-1106VV-PA00-VA-C-D-E0N3-AB02 <sup>1)</sup>	93219110
	2707-A2-2212VV-PA00-VA-C-E-E1N4-AB02	93219099
	2707-A2-1509VV-PA00-VA-C-E-E1N4-AB02	93219111
	2707-A2-1912VV-PA00-VA-C-E-E1N4-AB02	93219112
ELEMENT	2707-A2-0603VV-PA00-VA-G-D-E1N3-FA01 <sup>1)</sup>	93219991
	2707-A2-0903VV-PA00-VA-G-D-E1N3-FA01 <sup>1)</sup>	93219992
	2707-A2-0906VV-PA00-VA-G-D-E1N3-FA01 <sup>1)</sup>	93219993
	2707-A2-1106VV-PA00-VA-G-D-E1N3-FA01 <sup>1)</sup>	93219994
	2707-A2-1206VV-PA00-VA-G-D-E1N3-FA01 <sup>1)</sup>	93219995
	2707-A2-1509VV-PA00-VA-G-M-E1N4-FA01	93219996
	2707-A2-1912VV-PA00-VA-G-M-E1N4-FA01	93219997
	2707-A2-2212VV-PA00-VA-G-M-E1N4-FA01	93219998

1) Available 2025

Explanation of the product key

Key feature	Type	Control function	Paths/positions	Tube diameter	Pinch valve material	Interface variant
	TYP	SF	WS	ODID	WKSQ	SAA2
Key no.	1	2	3	4	5	6

Key feature	Seal material	Material	Actuator variant	Actuator size	Interface at actuator	Interface housing/actuator	Pilot air connection
	DWST	WKST	ANTA	ANTG	SAA1	SAA	STLA
Key no.	7	8	9	10	11	12	13

Key no. 1: Type (TYP)	
Type 2707	Pinch valve

Key no. 2: control function (SF)	
A	Closed by spring force
B <sup>1)</sup>	Opened by spring force
I <sup>1)</sup>	Without compression spring

1) On request

Key no. 3: paths / positions (WS)	
2	2 ways / 2 positions

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Key no. 4: tube diameter (ODID)		
Product keys for tube	Tube outside diameter	Tube inside diameter
0603 <sup>1.)</sup>	6.35 mm (¼")	3.18 mm (⅛")
0903 <sup>1.)</sup>	9.53 mm (⅜")	3.18 mm (⅛")
0906 <sup>1.)</sup>	9.53 mm (⅜")	6.35 mm (¼")
1106 <sup>1.)</sup>	11.13 mm (⅞")	6.35 mm (¼")
1206 <sup>1.)</sup>	12.70 mm (½")	6.35 mm (¼")
1509	15.88 mm (⅝")	9.53 mm (⅜")
1912	19.10 mm (¾")	12.70 mm (½")
2212	22.23 mm (⅞")	12.70 mm (½")

1.) Available 2025

Key no. 5: pinch valve material (WKSQ)	
VV	Stainless steel body, stainless steel holder

Key no. 6: interface variant (SAA2)	
PA	Pinch valve, squared mounting flange, 4 holes

Key no. 7: seal material (DWST)	
00	Without seal or no explanation

Key no. 8: material (WKST)	
VA	Stainless steel

Key no. 9: actuator variant (ANTA)	
C	PA actuator, stainless steel threaded bushing at pilot air connection
G	ELEMENT design actuator

Key no. 10: actuator size (ANTG)	
D	Ø 50
E	Ø 63
M	Ø 70

Key no. 11: interface at actuator (SAA1)	
E1	Spindle D10
E2	Spindle D14
E3	Spindle D22

Key no. 12: interface (SAA)		
N3	M40 × 1.5	DN 25
N4	M50 × 2	DN 32

Key no. 13: pilot air connection (STLA)	
AB02	G ¼" thread, sleeve
FA01	Pilot air ports: external push-in connectors 6 mm or ¼"
FA02	Pilot air ports: G ⅛" thread
FA03	Interface ELEMENT-top and remote sensor to ELEMENT-actuator