DATA SHEET

Type 2080

INOX

Pneumatically operated 2/2-way valve with bellows

- High media 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

Type 2380
Hygienic 2-way bellows control valve

Type 8652
AirLINE – the valve island optimised for process automation

Type 8036
Inline flowmeter with paddle wheel, ELEMENT design

Type 8098
FLOWave SAW flowmeter

Type description

The valve consists of a pneumatically actuated piston actuator, a stainless steel housing and a bellows element. This bellows element serves primarily as a seat seal, but also to hermetically seal of the media chamber. Due to the comparatively short stroke, these valves achieve a very high number of stroke cycles and short stroke times at relatively high flow rates. These properties make this type of valve ideal for applications in the filling sector, for example. The materials and internal contours used are easy to clean using the CIP / SIP process and the valve body is self-draining when installed in the appropriate position.

The modular design allows it to be equipped with different valve fittings and customised line connections. The pneumatic actuator can be extended with various functions and is preferably controlled externally via a pilot valve or a valve terminal.

An explosion-proof ATEX/IECEx device variant is available.

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Visit product website

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1. General technical data

Product properties	
Dimensions	Further information can be found in chapter "4. Dimensions" on page 6.
Material	
Body	Stainless steel 316Ti (1.4571), for flange 316L (1.4404)
Actuator	Stainless steel 304L (1.4301)
Bellows	Advanced PTFE
Wetted material	Stainless steel 316Ti (1.4571), 316L (1.4404), advanced PTFE
Standard surface quality	Ra ≤ 0.76 µm
Flow direction	Below seat (pressure on port connection 2)
Actuator size	Piston diameter 32 mm
Actuator variant	Control function A (NC) Control function B (NO)
Performance data	
Switching time	Control function A (NC) at 6 bar PSt: open: approx. 25 ms, close: approx. 55 ms (Guide values! Actual values depend on surrounding peripherals)
Pilot air pressure	4.5...10 bar
Pilot air ports	M5, G ⅛
Seat leakage	5 N_{ml}/min, measured with air 8 bar, below seat
Pressure range	- 0.9...8 bar
Medium data	
Process medium	Neutral and aggressive gases and liquids (see **resistance chart** ▶)
Medium temperature	See "5.1. Medium pressure" on page 11
Control medium	Neutral gases, air
Process/Port connection & communication	
Nominal diameter (port connection)	...DN 10 resp. DN ½
Port connection	Thread, weld, flange (others on request)
Environment and installation	
Installation position	See **operating manual Type 2080** ▶
Ambient temperature	- 10...+ 90 °C

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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 versions 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
	Optional: Explosion protection (valid for the variable code PX51) As a category 2 device suitable for zone 1/21 and zone 2/22. **ATEX:** EPS 18 ATEX 2 008 X II 2G Ex h IIC T4...T2 Gb II 2D Ex h IIIC T135 °C...T300 °C Db **IECEx:** IECEx EPS 18.0007X Ex h IIC T4...T2 Gb Ex h IIIC T135 °C...T300 °C Db

Temperature class	T2	T3	T4
Permissible 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

2.5. Foods and beverages/Hygiene

Conformity	Description
FDA	**FDA – Code of Federal Regulations** The bellows of advanced PTFE comply with the Code of Federal Regulations published by the FDA (Food and Drug Administration, USA).
USP	**United States Pharmacopeial Convention (USP)** The bellows of advanced PTFE are tested according to USP Class VI.
	EC Regulation 1935/2004 of the European Parliament and of the Council The bellows of advanced PTFE are suitable for use with food and beverages (according to EC Regulation 1935/2004/EC).

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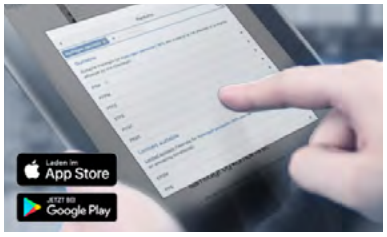
3. Materials

3.1. Bürkert resistApp

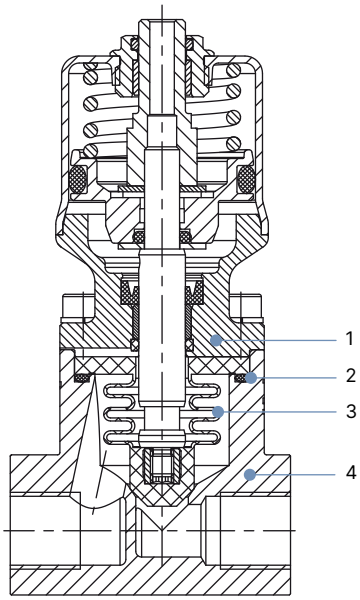


Bürkert resistApp – Chemical resistance chart

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



No.	Element	Material
1	Actuator	Stainless steel
2	O-ring	FKM (non-wetted)
3	Bellows	Advanced PTFE
3	Body	Stainless steel

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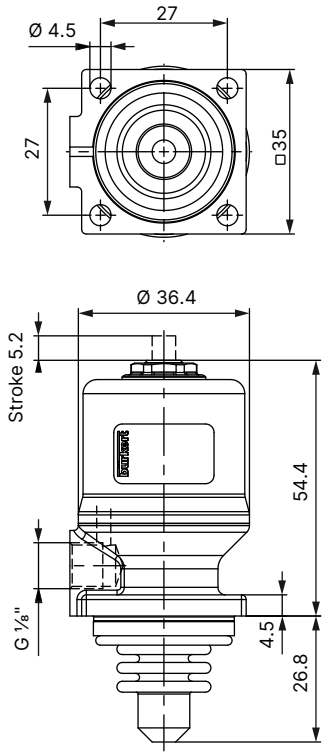
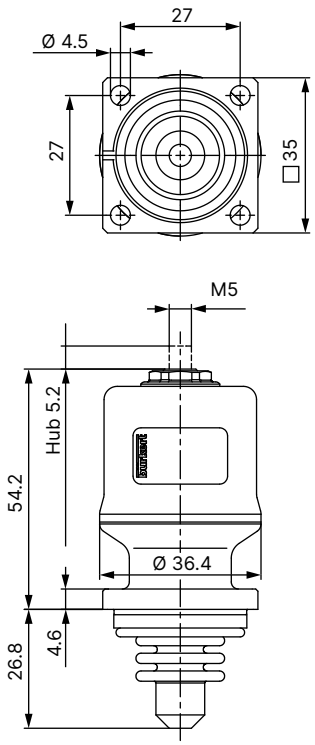
4. Dimensions

4.1. Actuators

Note:
Dimensions in mm

G ⅛ pilot air port (AG01)	M5 pilot air port (AG02)
Control function A available	**Control function A/Control function B available**
	

Single actuators	Article no.	
	AG01	AG02
Control function A	20100585	20100586
Control function B	–	20100587

– = not available

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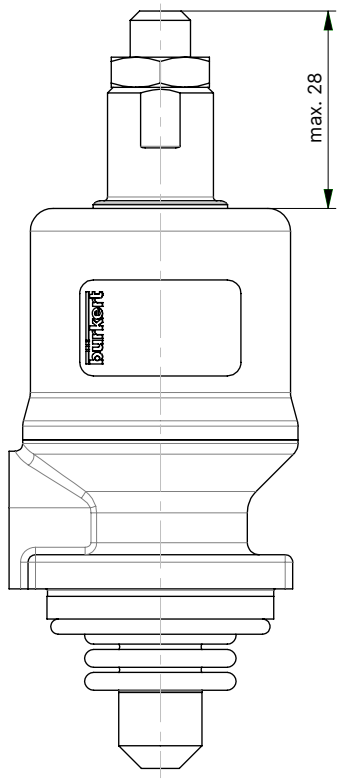
4.2. Actuator with flow adjustment

Note:

- Dimensions in mm
- Due to the M8×1 thread that is used, suitable initiators can be screwed in as an alternative and thus query the open actuator position.



Actuator individually with flow rate adjustment (MJ33)	Article no.	
	AG01	AG02
Control function A	20104851	–
Control function A retrofit set for flow rate adjustment	20061596	–

– = not available

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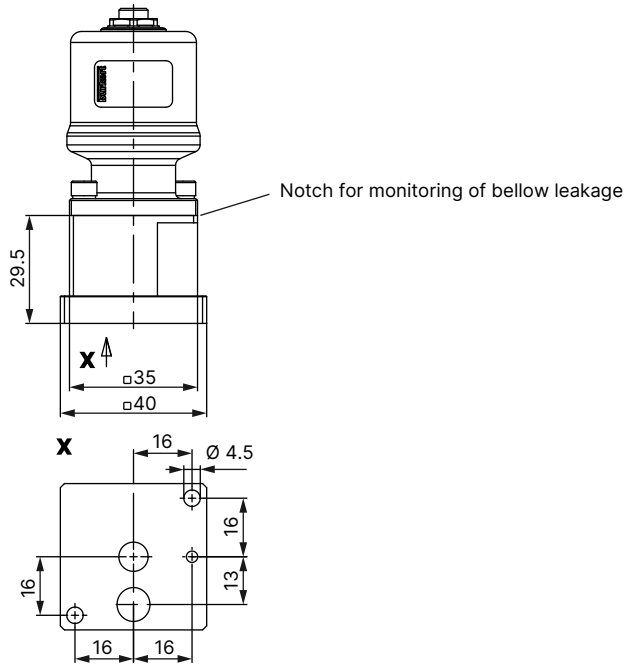
4.3. Flange body

Note:
Dimensions in mm



LTA Flange	Article no.	
	AG01	AG02
Control function A Flange pattern type 2090 (cable connection FK11)	20104726	20104841
Control function B Flange pattern type 2090 (cable connection FK11)	–	20104727

– = not available

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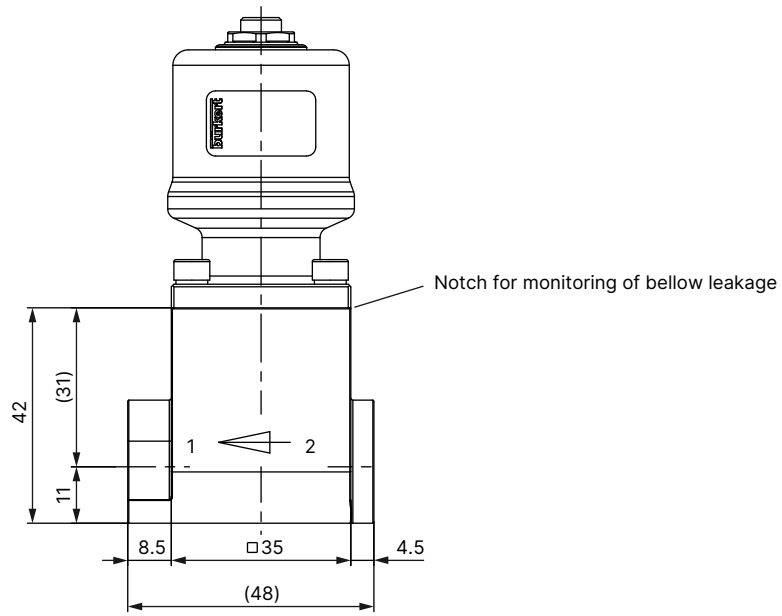
4.4. Threaded body

Note:
Dimensions in mm



LTA threaded socket	Article no.	
	AG01	AG02
Control function A G ¼" socket (pipe connection GM82)	20104734	20104736
Control function A G ⅜" socket (pipe connection GM83)	20104735	20104737

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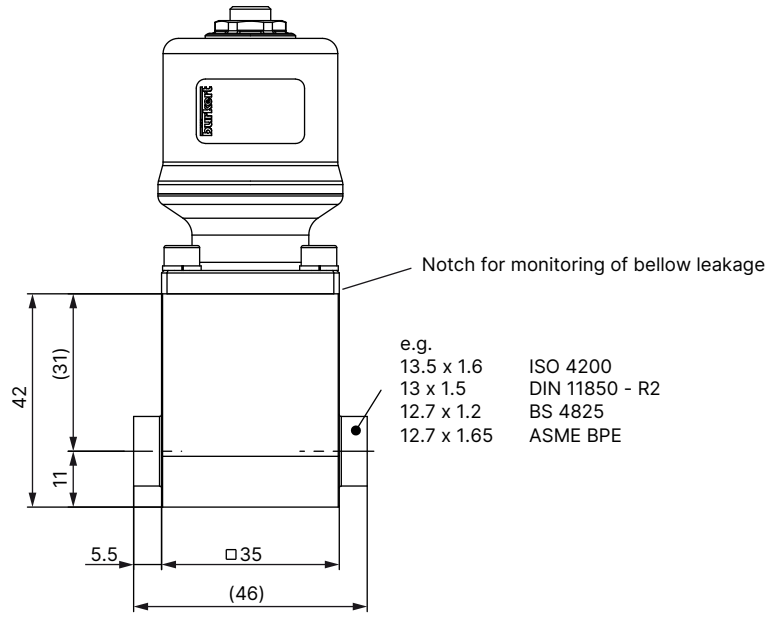
4.5. Welded body

Note:
Dimensions in mm



LTA welded connection	Article no.	
	AG01	AG02
Control function A welding connection ISO Ø 13.5 × 1.6 (cable connection SA40)	20104751	20104752
Control function B welding connection ISO Ø 13.5 × 1.6 (cable connection SA40)	–	20104753
Control function A welding connection ASME BPE Ø 12.7 × 1.65 (cable connection SA92)	20104754	20104755
Control function B welding connection ASME BPE Ø 12.7 × 1.65 (cable connection SA92)	–	20104756
Control function A welding connection DIN Ø 13.5 × 1.5 (cable connection SD40)	20104765	20104766
Control function B welding connection DIN Ø 13.5 × 1.5 (cable connection SD40)	–	20104767

– = not available

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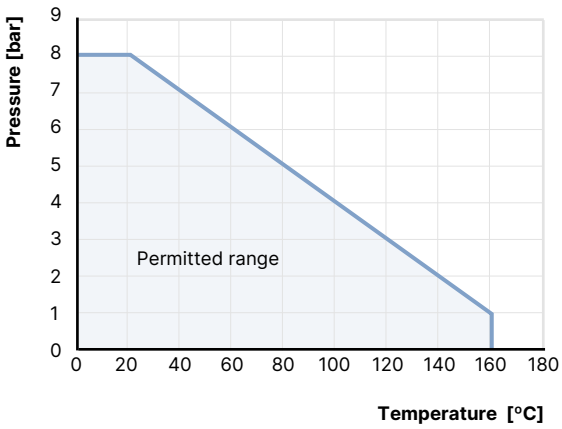
5. Performance specifications

5.1. Medium pressure

Pressure temperature diagram



6. Ordering information

6.1. 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

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

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