Hygienic 2-way bellows control valve

- Media separation through PTFE bellows
- Hygienic and compact design
- Ideal for demanding control tasks at smaller flows
- All common port connections up to DN 25 / NPS 1

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

Can be combined with

Type 8880
Modular tank pressure controller

Type 2080
Pneumatically operated 2/2-way valve with bellows

Type 2103
2/2-way diaphragm valve with pneumatic stainless steel actuator (Type ELEMENT) for decentralised automation

Type 8098
FLOWave SAW flowmeter

Type 8036
Inline flowmeter with paddle wheel, ELEMENT design

Type description

The bellows control valve Type 2380 is a high-performance, pneumatically actuated process valve with a single-acting actuator and a top-mounted positioner. PTFE bellows guarantee complete separation between the medium and the actuator, thus increasing service life and reliability. This valve is designed for both hygienic and aggressive conditions and is easy to clean. In conjunction with the proven positioners of Type 869x and integrated control cone with linear characteristic, it can also handle demanding control tasks. The space-saving actuators with low internal volume ensure excellent response times. Alternatively, this valve principle can also be used in customer-specific block solutions such as pressure control systems Type 8880.

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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 "6. Dimensions" on page 8.
Material	
Type of construction	Hygienic bellows globe control valve with process controller or positioner
Regulator design	Positioner or process controller depending on the positioner Type 869X used
Incoming flow	Depending on the product variant
Safety position in case of power failure	Closed (control function A), open (control function B)
Welded and clamp connections	Internally electrically polished: Ra ≤ 0.38 µm (ASME BPE SF4/DIN HE4)
Performance data	
Operating pressure	- 0.99 bar(g)...6 bar(g)
Control pressure	5.5 bar(g)...7 bar(g)
Seat leakage	Class VI (DIN EN 60534 - 4)
Pilot air port	Thread G ⅛
K_{VS} values	0.05 m³/h...6.2 m³/h
Operating characteristic	Linear
Theoretical rangeability	20:1
Electrical data	
Depending on the positioner Type 869X used	
Medium data	
Operating medium	Gases and liquids (ultra-pure, sterile, dirty, aggressive, abrasive or also highly viscous), steam (for sterilisation) (see **resistance chart** ▶)
Medium temperature	0 °C...+ 80 °C Steam sterilisation + 134 °C für 60 min at ambient temperature max. + 40 °C, Steam sterilisation + 150 °C für 30 min at ambient temperature max. + 35 °C
Control medium	Air or neutral gases (DIN ISO 8573 - 1: dust quality class 7, water quality class 3, oil quality class X)
Product connections	
Port connection	
Nominal diameter	DN 08...25, NPS ¼...1
Welded connection	DIN EN ISO 1127 / ISO 4200 / DIN 11866 series B DIN 11850 - 2 / DIN 11866 series A ASME BPE / DIN 11866 series C
Clamp connection	DIN 32676 series A (pipe DIN 11850 2) DIN 32676 series B (pipe ISO 4200) ASME BPE
Electrical connections	Depending on the Type 869X used
Approvals and conformities	
Further information can be found in chapter "4. Approvals and conformities" on page 6.	
Environment and installation	
Installation position	See "8. Product installation" on page 12
Ambient temperature	- 10...+ 55 °C
Degree of protection	IP65/IP67 according to EN 60529

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2. Product variants

2.1. Bellows control valve with compact actuator

Type 2380-LA	Product properties	
	Nominal diameter (port connection)	DN 8...20, NPS ¼...¾
	Actuator size	A (Ø 28 mm)
	Flow Direction	With closing direction (above seat)

2.2. Bellows control valve with ELEMENT actuator

Type 2380-LB	Product properties	
	Nominal diameter (port connection)	DN 20...25, NPS ¾...1
	Actuator size	70 mm (M)
	Flow Direction	Against closing direction (under seat)

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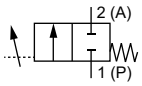
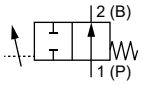
3. Control functions

Control function	Description
	**Control function A (CF A)** Pneumatically operated 2/2-way control valve Normally closed by spring force
	**Control function B (CF B)** Pneumatically operated 2/2-way control valve Normally opened by spring force

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4. Approvals and conformities

4.1. 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.

4.2. Conformity

In accordance with the Declaration of Conformity, the product is compliant with the EU Directives. This includes the following directives:

- Pressure Equipment Directive 2014/68/EU

4.3. 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.

4.4. Explosion protection

Approval	Description
	Device can be assembled from Ex-approved individual devices. As a category 2 device, the valve actuator is suitable for zone 1/21 and zone 2/22 (optional). **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 18.0007 X Ex h IIC T4...T2 Gb Ex h IIIC T135 °C...T300 °C Db The positioners or process controllers type 869X used are suitable for zone 2/22 as category 3 devices (optional)

4.5. Foods and beverages/Hygiene

Conformity	Description
FDA	**FDA - Code of Federal Regulations (valid for the variable code PL02, PL03)** All wetted materials are compliant with the Code of Federal Regulations published by the FDA (Food and Drug Administration, USA) in accordance with the manufacturer's declaration.
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 (valid for the variable code PL01, PL02) All wetted materials comply with EC Regulation 1935/2004/EC in accordance with the manufacturer's declaration.

4.6. Others

TA Luft

Conformity	Description
TA Luft	**Technical instruction on air quality control (valid for the variable code PM01)**

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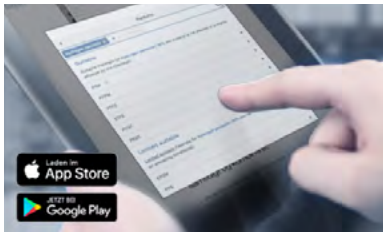
5. Materials

5.1. Bürkert resistApp

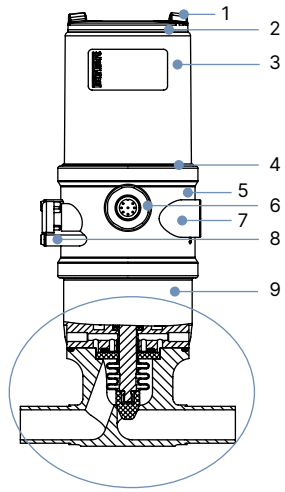


Bürkert resistApp – Chemical resistance chart

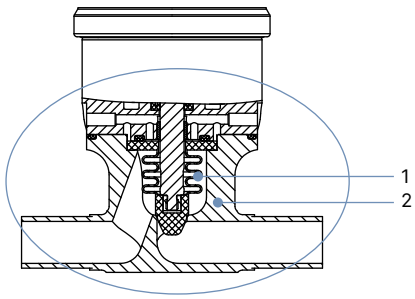
You want to ensure the reliability and durability of the materials in your individual application case? Verify your combination of media and materials on our website or in our resistApp.

Start chemical resistance check

5.2. Material specifications



No.	Element	Material
1	Cover	Polycarbonate
2	Seals	EPDM
3	Housing	Stainless steel
4	Seals	EPDM
5	Basic positioner housing	PPS
6	Push-in connector M12	Stainless steel
7	Threaded connection	Stainless steel
8	All screws in positioner	Stainless steel
9	Compact acutator ELEMENT actuator	Stainless steel PPS with stainless steel cover



No.	Element	Material
1	Bellows	Advanced PTFE
2	Valve body	Stainless steel 1.4435 BN2

Flow direction
→ Compact actuator
← ELEMENT actuator

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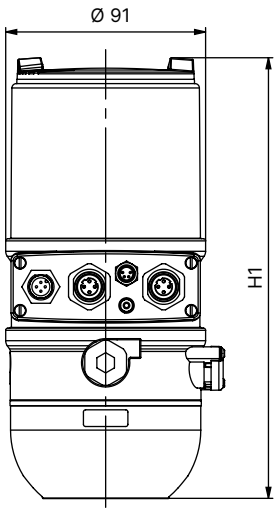
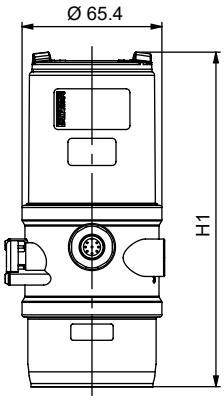
6. Dimensions

6.1. Combination of controller, actuator and valve body

Note:

- For more information see the **Product Enquiry Form** "11.3. Bürkert Product Enquiry Form" on page 16.
- Dimensions in mm, unless otherwise stated

Compact actuator with controller

Typ 8692, 8693, 8694	Typ 8696
	

Positioner	H1
Type 8692	201
Type 8693	201
Type 8694	160
Type 8696	156.5

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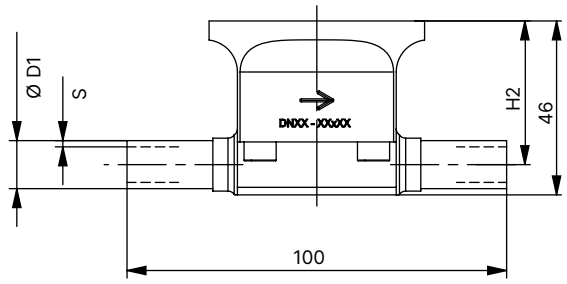
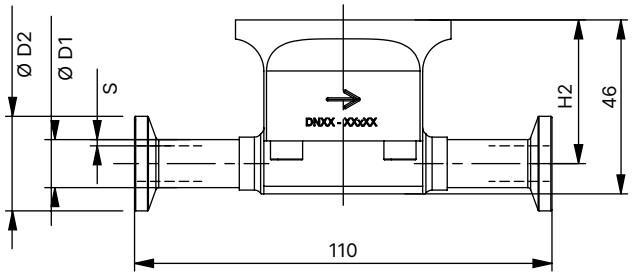
Housing

Welded connection	Clamp connection
	

Welded connection				Clamp connection			
Nominal connection size (pipe)	**Ø D1**	**s**	**A**	**Ø D1**	**s**	**Ø D2**	**A**
ASME BPE / DIN 11866 series C				**ASME BPE**			
NPS ⅜	9.53	0.89	38.0	9.53	0.89	25.0	38.0
NPS ½	12.7	1.65	38.0	12.7	1.65	25.0	38.0
NPS ¾	19.05	1.65	36.0	19.05	1.65	25.0	36.0
DIN 11850 - 2 / DIN 11866 series A				**DIN 32676 series A (pipe DIN 11850 - 2)**			
DN 10	13	1.5	38.0	13	1.5	25.0	38.0
DN 15	19	1.5	36.0	19	1.5	34.0	36.0
DIN EN ISO 1127 / ISO 4200 / DIN 11866 series B				**DIN EN ISO 1127 / ISO 4200 / DIN 11866 series B**			
DN 8	13.5	1.6	38.0	13.5	1.6	25.0	38.0
DN 10	17.2	1.6	36.0	17.2	1.6	25.0	36.0

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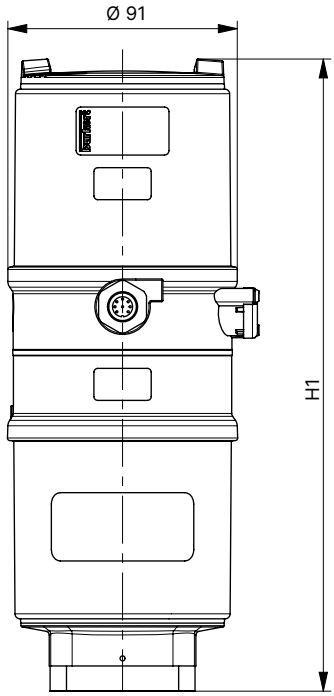
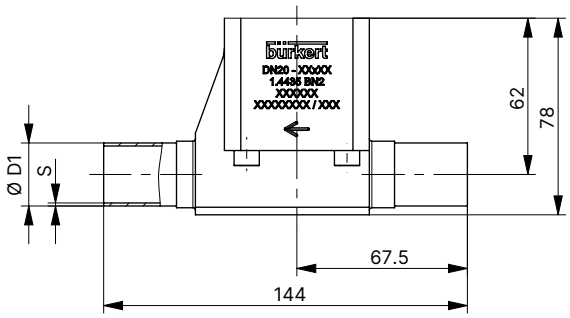
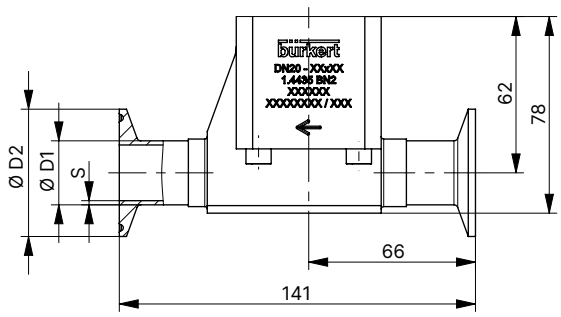
ELEMENT actuator with controller



Positioner	H1
Type 8692	292
Type 8693	292
Type 8694	251

Housing

Welded connection	Clamp connection
	

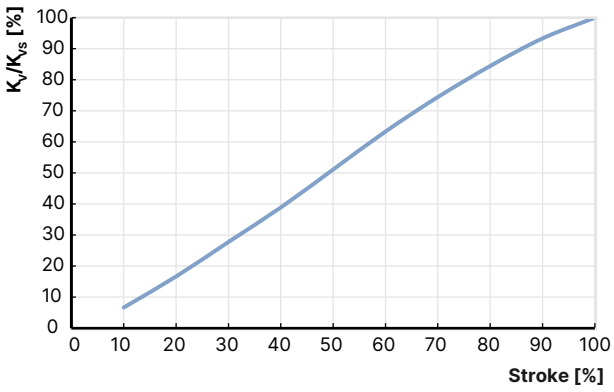
Welded connection			Clamp connection		
Nominal diameter (pipe)	**Ø D1**	**s**	**Ø D1**	**s**	**Ø D2**
ASME BPE / DIN 11866 series C			**ASME BPE**		
NPS 1	25.4	1.65	25.4	1.65	50.5
DIN 11850 - 2 / DIN 11866 series A			**DIN 32676 Reihe series A (pipe DIN 11850 - 2)**		
DN 25	29	1.5	29	1.5	50.5
DIN EN ISO 1127 / ISO 4200 / DIN 11866 series B			**DIN EN ISO 1127 / ISO 4200 / DIN 11866 series B**		
DN 20	26.9	1.6	26.9	1.6	50.5

7. Performance specifications

7.1. Fluidic data

Flow characteristics

Linear, theoretical setting ratio (K_{VS}/K_V) 20:1



Flow characteristic and K_V value (typical values)

Nominal diameter (pipe)		Actuator size Ø	Seat size	K_V value water at stroke										K_{VS} value
DN	NPS	mm		5 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %
				[m³/h]										
ASME BPE / DIN 11866 series C														
10	⅜	28 (A)	1.5	–	0	0	0.001	0.002	0.007	0.012	0.018	0.028	0.040	0.05
			3	–	0.010	0.025	0.050	0.075	0.10	0.13	0.15	0.18	0.20	0.22
			4	–	0.020	0.050	0.090	0.14	0.20	0.25	0.30	0.35	0.40	0.44
15	½	28 (A)	1.5	–	0	0	0.001	0.002	0.007	0.012	0.018	0.028	0.040	0.05
			3	–	0.010	0.025	0.050	0.075	0.10	0.13	0.15	0.18	0.20	0.22
			4	–	0.020	0.050	0.090	0.14	0.20	0.25	0.30	0.35	0.40	0.44
			6	–	0.060	0.15	0.25	0.35	0.46	0.57	0.67	0.76	0.84	0.9
20	¾	28 (A)	8	–	0.10	0.30	0.50	0.65	0.80	0.95	1.1	1.2	1.3	1.4
			10	–	0.15	0.40	0.60	0.80	1.0	1.2	1.4	1.6	1.7	1.8
25	1	70 (M)	15	0.050	0.13	0.35	0.65	1.1	1.5	2.0	2.6	3.3	4.2	5.0
			20	0.20	0.35	0.70	1.2	1.8	2.4	3.0	3.8	4.7	5.4	6.2
DIN 11850 - 2 / DIN 11866 series A														
10	⅜	28 (A)	1.5	–	0	0	0.001	0.002	0.007	0.012	0.018	0.028	0.040	0.05
			3	–	0.010	0.025	0.050	0.075	0.10	0.13	0.15	0.18	0.20	0.22
			4	–	0.020	0.050	0.090	0.14	0.20	0.25	0.30	0.35	0.40	0.44
			6	–	0.060	0.15	0.25	0.35	0.46	0.57	0.67	0.76	0.84	0.9
15	½	28 (A)	8	–	0.10	0.30	0.50	0.65	0.80	0.95	1.1	1.2	1.3	1.4
			10	–	0.15	0.40	0.60	0.80	1.0	1.2	1.4	1.6	1.7	1.8
25	1	70 (M)	15	0.050	0.13	0.35	0.65	1.1	1.5	2.0	2.6	3.3	4.2	5.0
			20	0.20	0.35	0.70	1.2	1.8	2.4	3.0	3.8	4.7	5.4	6.2
DIN EN ISO 1127 / ISO 4200 / DIN 11866 series B														
8	¼	28 (A)	6	–	0.060	0.15	0.25	0.35	0.46	0.57	0.67	0.76	0.84	0.9
10	⅜	28 (A)	8	–	0.10	0.30	0.50	0.65	0.80	0.95	1.1	1.2	1.3	1.4
			10	–	0.15	0.40	0.60	0.80	1.0	1.2	1.4	1.6	1.7	1.8
20	¾	70 (M)	15	0.050	0.13	0.35	0.65	1.1	1.5	2.0	2.6	3.3	4.2	5.0
			20	0.20	0.35	0.70	1.2	1.8	2.4	3.0	3.8	4.7	5.4	6.2

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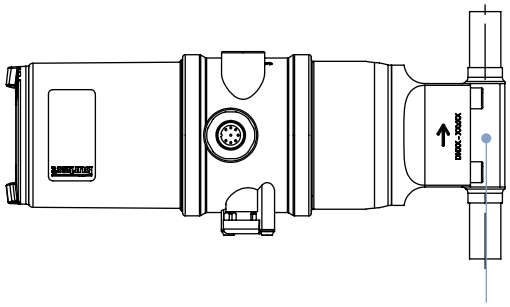
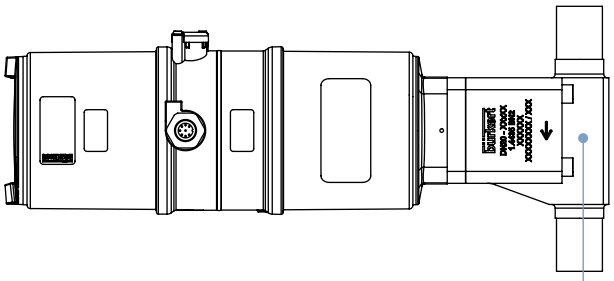
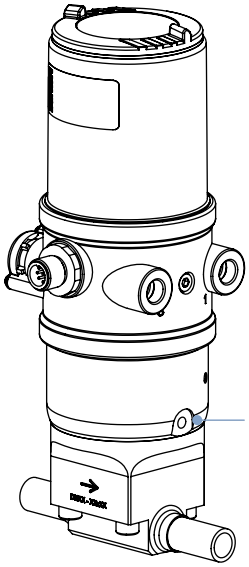
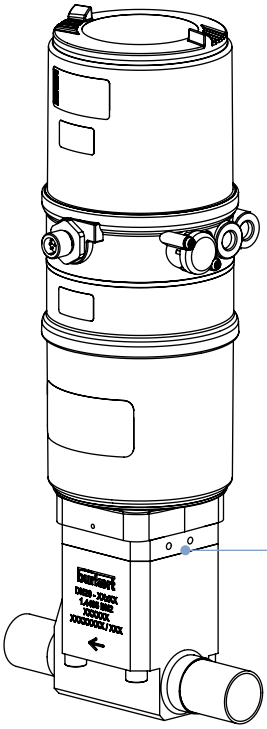
8. Product installation

8.1. Installation position for self-draining

Compact actuator	ELEMENT actuator
 Arrow pointing upwards	 Arrow pointing downwards

8.2. Relief bore

Compact actuator	ELEMENT actuator
 2 x relief bore M5 (second bore on the other side)	 2 x relief bore

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9. Product accessories

Process controller TopControl

Type 8693 ▸ Actuator size Ø 70/90/130/225 mm

The intelligent process controller Type 8693 is designed for integrated mounting on pneumatic actuators from the process control valve series Type 23xx/2103 and especially for the requirements of hygienic process conditions. Using the TUNE functions, the positioner and process controller can be initialised automatically. Easy operation and selection of additional software functions as well as parameterisation are carried out via the large graphic display and a touch keypad. Device configuration and parameterisation can also be conveniently carried out by the Bürkert Communicator software via a PC interface.

Features

- Contactless position sensor
- Universal control system for single and double acting actuators
- Highly dynamic actuating system without internal pilot air consumption in the balanced state
- Integrated diagnostic functions for valve monitoring
- Automatic initialisation of the positioner and process controller using the TUNE function
- Safeguarding in the event of failure of the electrical or pneumatic auxiliary power
- PROFIBUS DPV1, EtherNet/IP, PROFINET, Modbus TCP, Bürkert system bus (büS)
- Compact and robust hygienic stainless steel design

Customer benefits

- Quick and easy commissioning
- Intuitive and simple operation via a graphic display with backlight and touch keypad
- High system availability due to increased drive service life by means of spring chamber ventilation
- Guaranteed reliability and predictable maintenance through valve monitoring and diagnostics
- Easy maintenance and process monitoring

Positioner TopControl

Type 8692 ▸ Actuator size Ø 70/90/130/225 mm

The intelligent electropneumatic positioner Type 8692 is designed for integrated attachment to pneumatic actuators of the process control valve series Type 23xx/2103 and especially for the requirements of hygienic process conditions. The positioner can be initialised automatically using the TUNE function. Easy operation and the selection of the extensive additional software functions as well as parameterisation are carried out via the large graphic display and the touch keypad. The device configuration and parameterisation can also be conveniently carried out using the Bürkert Communicator software via a PC interface.

Features

- Contactless position sensor
- Universal positioning system for single and double-acting actuators in the balanced state
- Highly dynamic positioning system without internal pilot air consumption
- Integrated diagnostic functions for valve monitoring
- Automatic initialisation of the positioner by using the TUNE function
- Safeguard in the event of failure of the electrical or pneumatic auxiliary power
- PROFIBUS DPV1, EtherNet/IP, PROFINET, Modbus TCP, Bürkert system bus (büS)
- Compact and robust hygienic stainless steel design

Customer benefits

- Quick and easy commissioning
- Intuitive and simple operation via graphic display with backlight and touch keypad
- High system availability due to increased drive service life by means of spring chamber ventilation
- Guaranteed reliability and predictable maintenance through valve monitoring and diagnostics

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Positioner TopControl BASIC

Type 8694 ▸ Actuator size Ø 70/90/130/225 mm

The compact positioner Type 8694/8696 is designed for integrated attachment to pneumatic actuators of the Type 23xx/2103 process control valve series and especially for the requirements of hygienic process conditions. Operation and parameterisation are performed via push buttons and DIP switches. The device configuration and parameterisation can also be conveniently carried out using the Bürkert Communicator software via a PC interface.

Features

- Contactless position sensor
- Universal positioning system for single and double-acting actuators
- Ultra dynamic positioning system without internal pilot air consumption
- AS-Interface, IO-Link, Bürkert system bus (büS) (only 8694)
- Compact and robust hygienic stainless steel design

Type 8696 ▸ Actuator size Ø 50 mm

Customer benefits

- Simple and safe commissioning using the Teach function
- Minimum space requirement in the plant pipework for more flexibility in plant design
- High system availability due to increased drive service life by means of spring chamber ventilation

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10. Networking and combination with other Bürkert products

The bellow control valve Type 2380 is a combination of a bellow valve and controller Type 869x.

The following controllers are eligible:

- A digital electropneumatic **basic positioner Type 8696**
- A digital electropneumatic **basic positioner Type 8694**
- A digital electropneumatic **positioner Type 8692**
- A digital electropneumatic **positioner or process controller Type 8693**

Note:

- For the configuration of further valve systems please use the **Product Enquiry Form** "11.3. Bürkert Product Enquiry Form" on page 16.
- The controller is included in Type 2380 and does not need to be ordered separately.

Example:

Bellows control valve	Process controller TopControl	Positioner TopControl		
Type 2380 Bellows valve + Type 869x = Type 2380	**Type 8693** ▶ Digital electropneumatic process controller for the integrated mounting on process control valves	**Type 8692** ▶ Digital electropneumatic positioner for the integrated mounting on process control valves	**Type 8694** ▶ Digital electropneumatic positioner for the integrated mounting on process control valves	**Type 8696** ▶ Digital electropneumatic positioner for the integrated mounting on process control valves
		Bellows control valve		
	Type 2380 (incl. Type 8693)	**Type 2380 (incl. Type 8692)**	**Type 2380 (incl. Type 8694)**	**Type 2380 (incl. Type 8696)**

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11. Ordering information

11.1. 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

11.2. Bürkert product filter

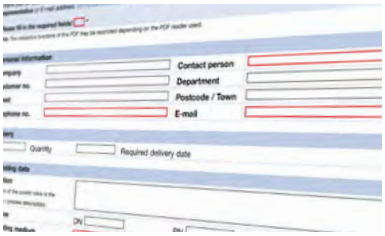
Bürkert product filter – Get quickly to the right product

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

11.3. 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

11.4. Ordering chart accessories

Spare part set

Description	Seat size	Article no.
Each set contains 1x bellows with matching O-rings.	1.5	759879
	3	796530
	4	796531
	6	796532
	8	796533
	10	796534
	15	326232
	20	326234

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