








## 2/2-way Bellow Control Valve

- For neutral and aggressive media
- Media separation by PTFE bellow
- Hygienic design



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

### Can be combined with

- |   |   |   |
|---|---|---|
|  | <b>Type 8696</b><br>Digital electropneumatic positioner for the integrated mounting on process control valves         | ▶ |
|  | <b>Type 8694</b><br>Digital electropneumatic positioner for the integrated mounting on process control valves         | ▶ |
|  | <b>Type 8692</b><br>Digital electropneumatic Positioner for the integrated mounting on process control valves         | ▶ |
|  | <b>Type 8693</b><br>Digital electropneumatic process controller for the integrated mounting on process control valves | ▶ |
|  | <b>System example</b><br>Customer specific block variant  |   |

### Type description

The bellow control valve is a pneumatically operated process valve with a single-acting diaphragm actuator. A PTFE bellow ensures the separation between medium and actuator. The materials used and the design of the media space allow the use under hygienic or aggressive conditions. It has a good cleanability. The combination with a controller (Type 869x) and the control cone integrated into the bellow enable the valve to handle demanding control tasks. The space-saving actuator with low internal volume not only results in a very compact size but also in remarkably low response times. The valve is characterized by a good control performance due to the low-friction design and has a linear characteristic. A certain variety of body and block system solutions are deliverable.



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## 1. General technical data

<b>Product properties</b>	
Dimensions	Detailed information can be found in chapter "5. Dimensions" on page 6.
<b>Material</b>	
<b>Medium contact</b>	
Body	Stainless steel 316L ASME BPE (1.4435 BN2)
Bellows	Advanced PTFE
<b>No medium contact</b>	
Seal	EPDM, FKM
Controller	PPS, stainless steel
Actuator	304 (1.4301) or CF-8 (1.4308)
<b>Standard surface quality</b>	
Threaded connection	Ra 1.6 µm
Weld and clamp connections	Internal mechanically polished : Ra 0.6 µm Internal electrically polished : Ra 0.38 µm
<b>Performance data</b>	
K <sub>vs</sub> value	0.05...1.8 m³/h
Seat leakage	<0.01 % of full flow capacity (ANSI Class IV)
Pilot pressure (max.)	5.5...7 bar(g)
Reaction/switching time	Typical settling time < 1 sec.
<b>Electrical data</b>	
Electrical characteristics	Defined by the use of Type 869x
Electrical signal/communication	Analogue standard signal (e.g. 4...20 mA) Bus communication (e.g. Ethernet/IP, bus) (depending on Type 869x)
<b>Medium data</b>	
Medium	Gases and fluids (ultra-pure, sterile, dirty, aggressive, abrasive or also highly viscous); Steam (for sterilisation).
Medium temperature	0...+80 °C (-10 °C...+150 °C for restricted operating conditions <sup>1)</sup> )
Medium pressure	Vacuum up to 6 bar(g)
Control medium	Air or neutral gases (DIN ISO 8573-1: Dust Q.-Kl. 7, Water Q.-Kl. 3, Oil Q.-Kl. X)
<b>Process/Port connection &amp; communication</b>	
Nominal diameter	DN4...DN15
Nominal seat size	DN1.5...DN10
<b>Port connection</b>	
Threaded connection	G (DIN EN ISO 228-1)
Welded connection	DIN 11850 series 0 DIN 11866 R. A / DIN 11850 R. 2 DIN 11866 R. B / DIN ISO 4200 DIN 11866 R. C / ASME BPE
Clamp connection	On request
Pilot air ports	Thread G 1/8
Electrical connection	Circular connectors (Multipole) / Cable gland (depending on Type 869x)
<b>Approvals and certificates</b>	
Conformity	CE acc. to EG declaration of conformity (2014/30/EU EMC) FDA EG regulation no. 1935/2004
Certificates	United States Pharmacopeia (USP) Class VI – 121 °C
Approvals	ATEX II Cat. 3 G/D (on request)
<b>Environment and installation</b>	
Installation position	See "7. Product installation" on page 8
Ambient temperature	-10...+55 °C
Degree of protection	IP65/67 acc. to EN 60529

1.) Medium pressure max. 4 bar (g)

up to +134 °C: max. 60 min, ambient temperature max. +40 °C

up to +150 °C: max. 30 min, ambient temperature max. +35 °C

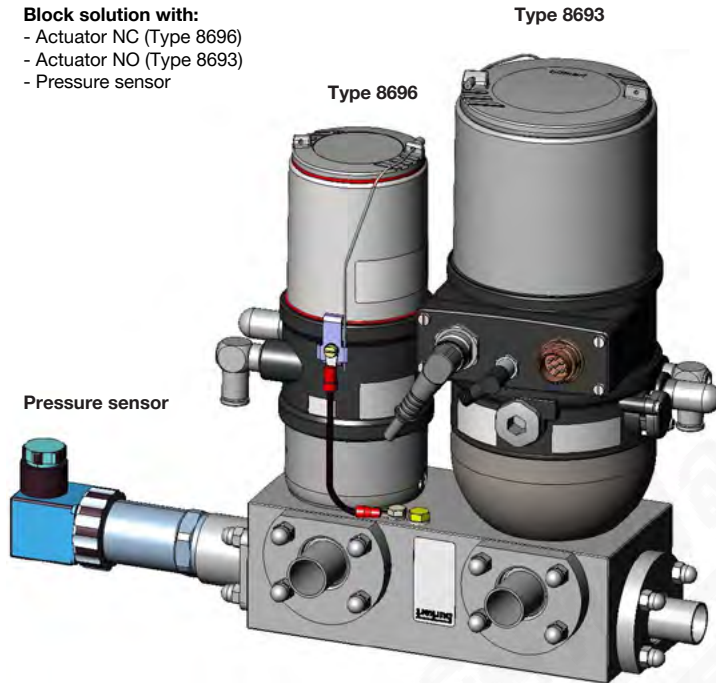
## 2. Product versions

### 2.1. Example of a system solution

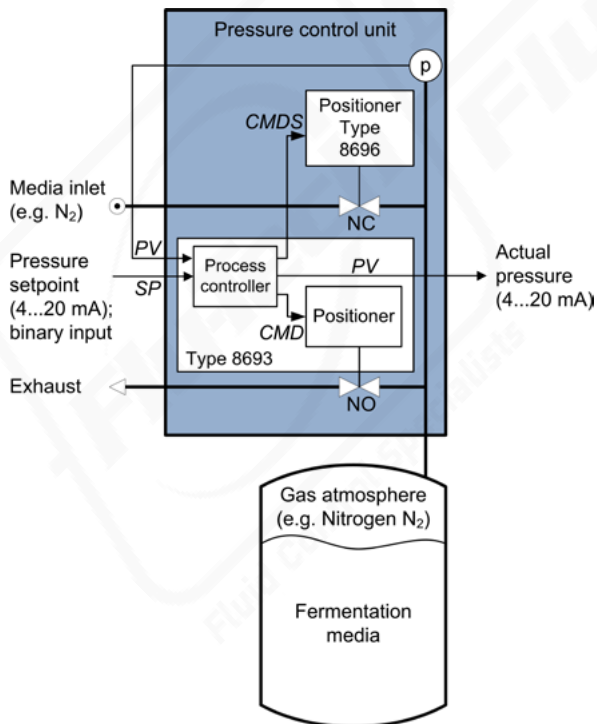
#### Pressure control unit, Type 8880

The pressure control unit controls the gas pressure cushion in the liquid tanks.

- Block solution with:**
- Actuator NC (Type 8696)
  - Actuator NO (Type 8693)
  - Pressure sensor



#### Function diagram

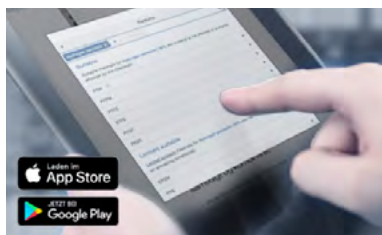


### 3. Circuit functions

Control function	Description
	<b>CF: A, pneumatically operated control valve</b> 2/2 way Flow direction above seat Normally closed by spring force
	<b>CF: B, pneumatically operated control valve</b> 2/2 way Flow direction above seat Normally open by spring force

### 4. Materials

#### 4.1. Chemical Resistance Chart – Bürkert resistApp

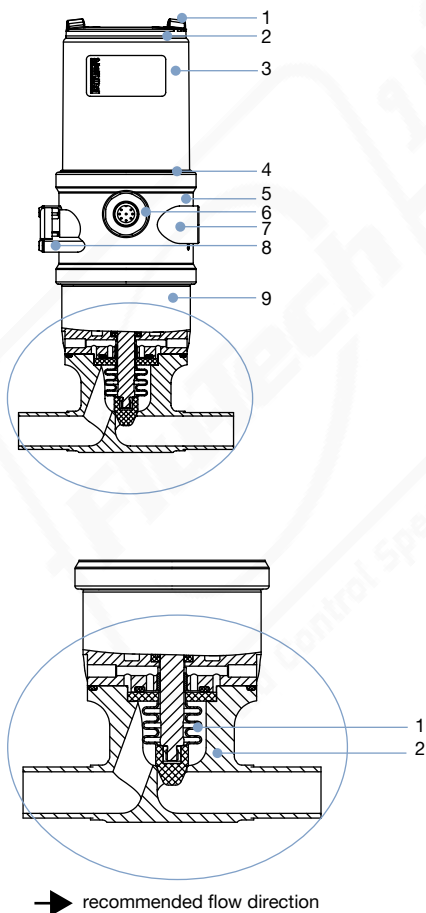


#### Bürkert resistApp – Chemical Resistance Chart

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](#)

#### 4.2. Material specifications



No.	Element	Material
1	Cover	Polycarbonate
2	Seals	EPDM
3	Outer casing	Stainless steel
4	Seals	EPDM
5	Basic positioner body	PPS
6	Plug connector M12	Stainless steel
7	Threaded connection	Stainless steel
8	All screws in positioner	Stainless steel
9	Actuator	1.4301/1.4308

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

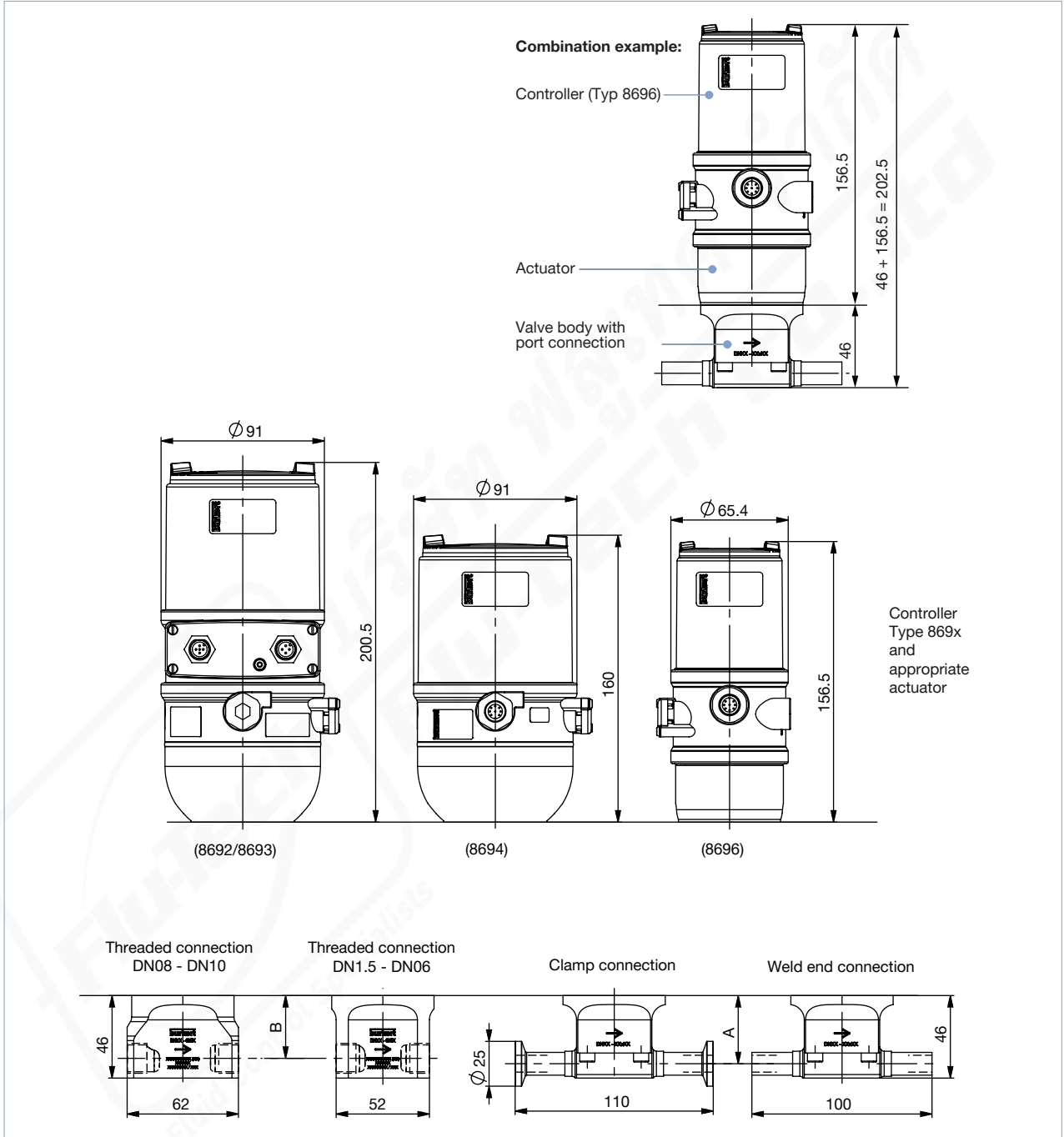
Visit product website ▶

## 5. Dimensions

### 5.1. Combination of controller, actuator and valve body

**Note:**

- For more details see the **product enquiry** form at the end of this document.
- Dimensions in mm



Threaded connection	B [mm]	Nominal diameter (DN)	A [mm]
GM82 G ¼	36	1.5 / 3.0 / 4.0 / 6.0	38
GM83 G ⅜	35	8.0 / 10.0	36
GM84 G ½	33		



## 6. Performance specifications

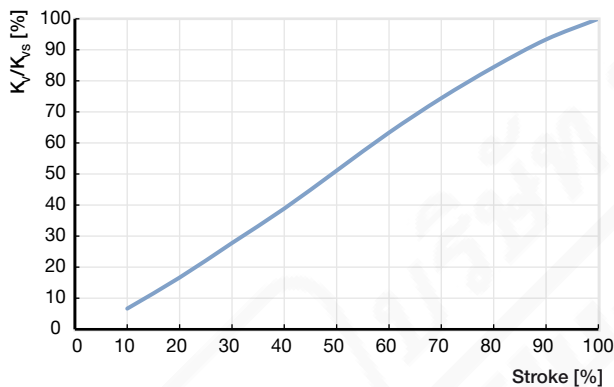
### 6.1. Flow characteristics

Flow characteristic and  $K_v$  value (typical value)

Nominal diameter (pipeline)		Seat nominal diameter DN	$K_v$ value at stroke [m <sup>3</sup> /h]									$K_{vs}$ value
[mm]	ASME size		10%	20%	30%	40%	50%	60%	70%	80%	90%	
6.35x0.89	¼"	1.5	0.005	0.009	0.013	0.018	0.023	0.028	0.033	0.038	0.044	0.05
6.35x0.89	¼"	3	0.01	0.025	0.05	0.075	0.1	0.125	0.15	0.175	0.2	0.22
6.35x0.89	¼"	4	0.02	0.05	0.09	0.14	0.2	0.25	0.3	0.35	0.4	0.44
12.7x1.65	½"	6	0.06	0.15	0.25	0.35	0.46	0.57	0.67	0.76	0.84	0.9
12.7x1.65	½"	8	0.1	0.3	0.5	0.65	0.8	0.95	1.1	1.2	1.3	1.4
12.7x1.65	½"	10	0.15	0.4	0.6	0.8	1	1.15	1.3	1.45	1.55	1.6
19x1.5	–	10	0.15	0.4	0.6	0.8	1	1.2	1.4	1.55	1.7	1.8

### Flow rate characteristics

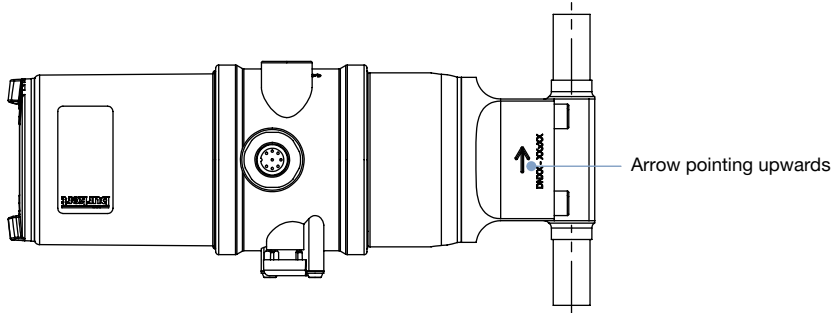
Linear, theoretical setting ratio ( $K_{vs}/K_v$ ) 20:1



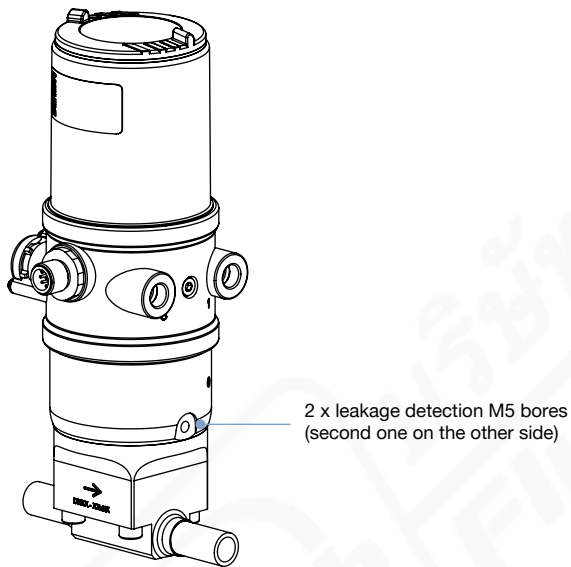
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## 7. Product installation

### 7.1. Installation position for self-draining




### 7.2. Leakage detection bores





## 8. Product accessories

Process controller TopControl	
Type 8693 ▶ Actuator size Ø 70/90/130 mm	Description
	<p>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 process controller and positioner can be initialized automatically. Easy operation and selection of additional software functions as well as parameterization are carried out via the large graphic display and the keypad. Device configuration and parameterization can also be conveniently carried out by the Bürkert Communicator software tool via a PC interface.</p> <p><b>Features</b></p> <ul style="list-style-type: none"> <li>• Contact-free position sensor</li> <li>• Universal positioning system for single and double-acting actuators</li> <li>• Ultra dynamic positioning system without air consumption in steady state</li> <li>• Integrated diagnostic functions for valve monitoring</li> <li>• Automatic initialization of the positioner and process controller using the TUNE-Function</li> <li>• Defined safe position in case of electrical or pneumatic auxiliary power failure</li> <li>• PROFIBUS DP-V1, EtherNet/IP, PROFINET, Modbus TCP, Bürkert system bus (bÜS)</li> <li>• Compact and robust hygienic stainless steel design</li> </ul> <p><b>Customer benefits</b></p> <ul style="list-style-type: none"> <li>• Quick and easy commissioning</li> <li>• Intuitive and simple operation via graphic display with backlight and keypad</li> <li>• High degree of system availability due to increased actuator service life by means of spring chamber ventilation</li> <li>• Guaranteed reliability and predictable maintenance through valve monitoring and diagnostics</li> <li>• Easy maintenance and process monitoring</li> </ul>

Positioner TopControl	
<b>Type 8692 ▶</b> <b>Actuator size Ø 70/90/130 mm</b>	Description
	<p>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 initialized automatically using the TUNE-Function. Easy operation and the selection of the extensive additional software functions as well as parameterization are carried out via the large graphic display and keypad. The device configuration and parameterization can also be conveniently carried out using the Bürkert Communicator software tool via a PC interface.</p> <p><b>Features</b></p> <ul style="list-style-type: none"> <li>• Contact-free position sensor</li> <li>• Universal positioning system for single and double-acting actuators</li> <li>• Ultra dynamic positioning system without air consumption in steady state</li> <li>• Integrated diagnostic functions for valve monitoring</li> <li>• Automatic initialization of the positioner by means of the TUNE-Function</li> <li>• Defined safe position in case of electrical or pneumatic auxiliary power failure</li> <li>• PROFIBUS DP-V1, EtherNet/IP, PROFINET, Modbus TCP, Bürkert system bus (bÜS)</li> <li>• Compact and robust hygienic stainless steel design</li> </ul> <p><b>Customer benefits</b></p> <ul style="list-style-type: none"> <li>• Quick and easy commissioning</li> <li>• Intuitive and simple operation via graphic display with backlight and touch keypad</li> <li>• High degree of system availability due to increased actuator service life by means of spring chamber ventilation</li> <li>• Guaranteed reliability and predictable maintenance through valve monitoring and diagnostics</li> </ul>
Positioner TopControl BASIC	
<b>Type 8694 ▶</b> <b>Actuator size Ø 70/90/130 mm</b>	Description
	<p>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 parameterization are performed via push buttons and DIP switches. The device configuration and parameterization can also be conveniently carried out using the Bürkert Communicator software tool via a PC interface.</p> <p><b>Features</b></p> <ul style="list-style-type: none"> <li>• Contact-free position sensor</li> <li>• Universal positioning system for single and double-acting actuators</li> <li>• Ultra dynamic positioning system without internal control air consumption</li> <li>• AS-Interface, IO-Link, Bürkert system bus (bÜS) (only 8694)</li> <li>• Compact and robust hygienic stainless steel design</li> </ul> <p><b>Customer benefits</b></p> <ul style="list-style-type: none"> <li>• Simple and safe commissioning through Teach-In function</li> <li>• Minimum space requirement in the plant pipework for more flexibility in plant design</li> <li>• High degree of system availability due to increased actuator service life by means of spring chamber ventilation</li> </ul>
<b>Type 8696 ▶</b> <b>Actuator size Ø 50 mm</b>	
	

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## 9. Networking and combination with other Bürkert products

### 9.1. Combination possibilities for bellows control valve, Type 2380

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

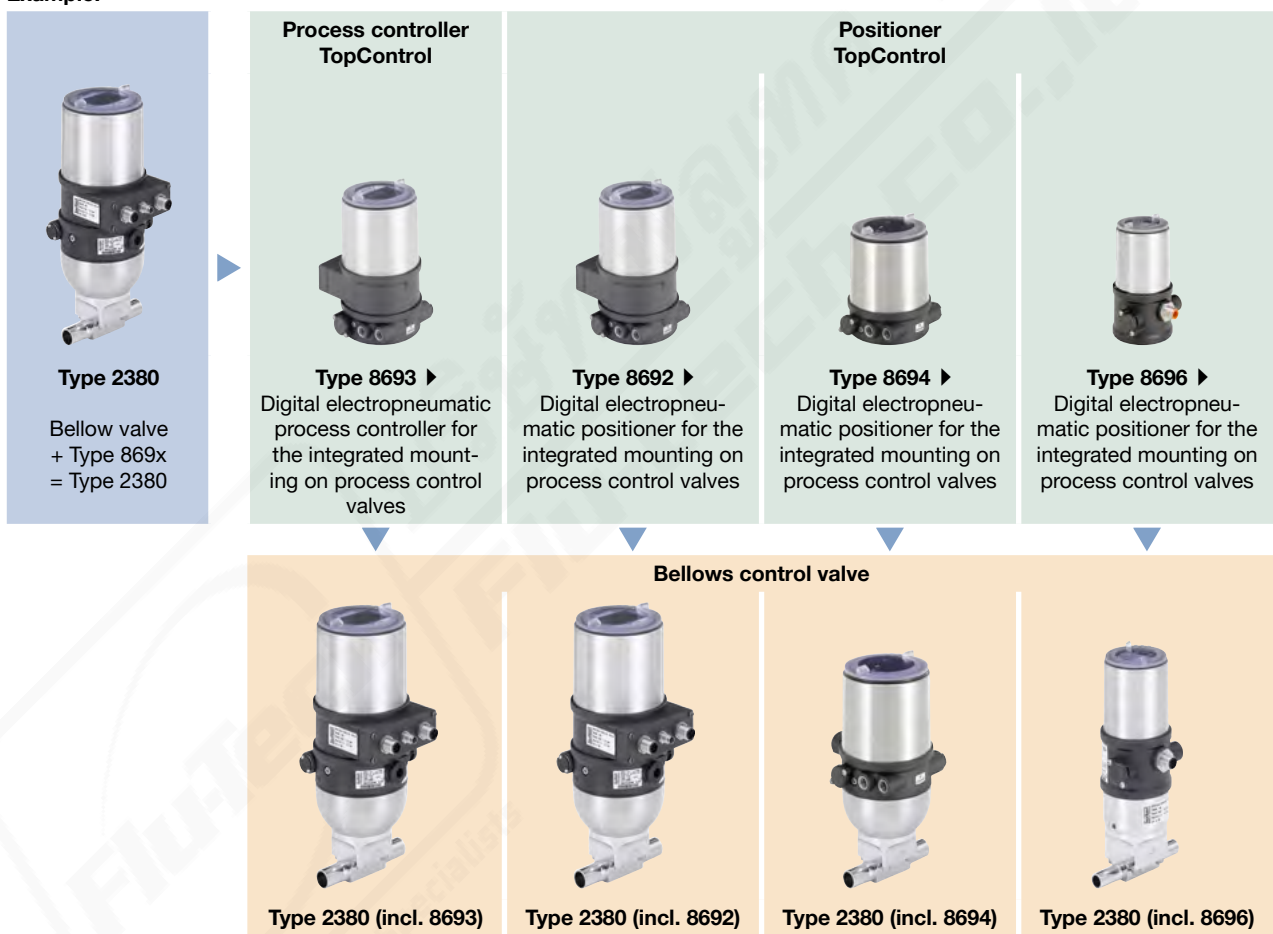
The following controllers are eligible:

- 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** at the end of this data sheet.
- The controller is included in the Type 2380 and does not need to be ordered separately.


**Example:**



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## 10. Ordering information

### 10.1. 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](#)

### 10.2. 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](#)

### 10.3. Bürkert product enquiry form

**Bürkert product enquiry form:** Would you like to make a specific product enquiry based on your technical requirements? Please use our product enquiry form **at the end of this data sheet**. There you will find all the information relevant to your Bürkert contact person that will help us to process your enquiry in the best possible way.

**Bürkert specification key:** In our product enquiry form you will find a complete explanation of the composition of our specification key. You will find our product enquiry form **at the end of this data sheet**.

### 10.4. Ordering chart accessories

#### Spare part set

**Each set contains:**

- 1 x O-ring 20 x 2.5
- 1 x O-ring 52 x 2
- 1 x bellows DNx

Nominal diameter	Article no.
DN1.5	759879
DN3	796530
DN4	796531
DN6	796532
DN8	796533
DN10	796534

## Product Enquiry Form - Bellow control valve

Thank you for your interest in our products! In order to provide you with optimum advice, please fill out the following form and send it to your **Bürkert representative** or e-mail address: [info@burkert.com](mailto:info@burkert.com). All information submitted will of course be kept strictly confidential.

Please fill in the **required fields!**  \*

\*Note: The interactive functions of this PDF may be restricted depending on the PDF reader used.

Personal Information			
Company		Contact person	
Customer no.		Department	
Street		Postcode / Town	
Telephone no.		Email	

Delivery
Required delivery date

Operating data				
Process medium				
Medium	Fluid	Steam	Gas	
Flow rate (Q, Q <sub>N</sub> , W) <sup>1.)</sup>	Min	Nominal	Max	Unit
Temperature at valve inlet T <sub>1</sub>	Min	Nominal	Max	Unit
Pressure <sup>2.)</sup> at valve inlet P <sub>1</sub>	Min	Nominal	Max	Unit
Pressure <sup>2.)</sup> at valve outlet P <sub>2</sub>	Min	Nominal	Max	Unit
Steam pressure P <sub>v</sub>	Min	Nominal	Max	Unit
Kinematic viscosity (ν)	mm <sup>2</sup> /s or cSt			
Dynamic viscosity (η)	mPa·s or cP			
Standard density	kg/m <sup>3</sup>			

1.) Standard unit: Liquid: Q = m<sup>3</sup>/h | Gas: Q<sub>N</sub> = Nm<sup>3</sup>/h | Steam: W = kg/h

2.) Note: Pressure data in bar: Overpressure to atmospheric pressure

Approvals / Conformity
CE acc. to EG declaration of conformity
FDA conformity
EG regulation no. 1935/2004
USP class VI – 121 °C
ATEX II cat. 3 G/D

Additional Requirements / Comment

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## Specification key - Example

**Note:**

Key components **1, 2, 9, 10** and **15** marked in blue do not need to be selected and are therefore not listed in the **Specification key** below.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	V1	16	17
2380	LA	N	A	10.0	EE	VI	SA41	0	0	E	I	0	0	0	PL02	MP	NO17

## Specification key

**Note:**

Below you will find the **Key legend** to fill in the fields.

Key No. →	Quantity	Control type (+ actuator)	Control function	Nominal diameter [mm]	Seal material	Body material	Connection	Power supply	Additional inputs/ outputs	Communication	Approval	Variable Codes	Electrical connections	Surface quality
		3	4	5	6	7	8	11	12	13	14	V1	16	17
Selection →												PL02		
Comments														

## Key legend

**Note:**

- Other versions on request
- For more information, see the data sheet

<p><b>Key no. 3: Control type (+ actuator)</b></p> <table border="1"> <tr><td>N</td><td>Type 8696</td></tr> <tr><td>L</td><td>Type 8694</td></tr> <tr><td>I</td><td>Type 8692</td></tr> <tr><td>J</td><td>Type 8693</td></tr> </table>	N	Type 8696	L	Type 8694	I	Type 8692	J	Type 8693	<p><b>Key no. 8: Connection</b></p> <table border="1"> <tr><td colspan="2">Listed in detail below</td></tr> </table>	Listed in detail below											
N	Type 8696																				
L	Type 8694																				
I	Type 8692																				
J	Type 8693																				
Listed in detail below																					
<p><b>Key no. 4: Control function</b></p> <table border="1"> <tr><td>A</td><td>NC - normally closed</td></tr> <tr><td>B</td><td>NO - normally open</td></tr> </table>	A	NC - normally closed	B	NO - normally open	<p><b>Key no. 11: Power supply</b></p> <table border="1"> <tr><td>E</td><td>24 V DC</td></tr> <tr><td>3</td><td>Via Bus</td></tr> </table>	E	24 V DC	3	Via Bus												
A	NC - normally closed																				
B	NO - normally open																				
E	24 V DC																				
3	Via Bus																				
<p><b>Key no. 5: Nominal diameter [mm]</b></p> <table border="1"> <tr><td>1.5</td><td>8.0</td></tr> <tr><td>3.0</td><td>10.0</td></tr> <tr><td>4.0</td><td>0000<sup>1.)</sup></td></tr> <tr><td>6.0</td><td></td></tr> </table> <p>1.) Without bellows for devices without body</p>	1.5	8.0	3.0	10.0	4.0	0000 <sup>1.)</sup>	6.0		<p><b>Key no. 12: Additional inputs/outputs</b></p> <table border="1"> <tr><td>0</td><td>No additional inputs/outputs (only for bus communication)</td></tr> <tr><td>H</td><td>1 binary input</td></tr> <tr><td>I</td><td>1 binary input + 1 analogue output</td></tr> <tr><td>F</td><td>1 binary input + 1 analogue output + 2 Binary outputs (only for Types 8692 and 8693)</td></tr> <tr><td>K</td><td>16-bit feedback via bus (only AS-i)</td></tr> </table>	0	No additional inputs/outputs (only for bus communication)	H	1 binary input	I	1 binary input + 1 analogue output	F	1 binary input + 1 analogue output + 2 Binary outputs (only for Types 8692 and 8693)	K	16-bit feedback via bus (only AS-i)		
1.5	8.0																				
3.0	10.0																				
4.0	0000 <sup>1.)</sup>																				
6.0																					
0	No additional inputs/outputs (only for bus communication)																				
H	1 binary input																				
I	1 binary input + 1 analogue output																				
F	1 binary input + 1 analogue output + 2 Binary outputs (only for Types 8692 and 8693)																				
K	16-bit feedback via bus (only AS-i)																				
<p><b>Key no. 6: Seal material</b></p> <table border="1"> <tr><td>00</td><td>Without bellow for devices without valve body</td></tr> <tr><td>EE</td><td>PTFE</td></tr> </table>	00	Without bellow for devices without valve body	EE	PTFE	<p><b>Key no. 13: Communication</b></p> <table border="1"> <tr><td>0</td><td>No bus communication</td><td>J</td><td>Profinet</td></tr> <tr><td>C</td><td>AS-i (62 slaves, analogue profile)</td><td>K</td><td>Modbus TCP</td></tr> <tr><td>G</td><td>büS</td><td>Q</td><td>IO-Link</td></tr> <tr><td>I</td><td>EtherNet/IP</td><td>Y</td><td>Profibus DP-V1</td></tr> </table>	0	No bus communication	J	Profinet	C	AS-i (62 slaves, analogue profile)	K	Modbus TCP	G	büS	Q	IO-Link	I	EtherNet/IP	Y	Profibus DP-V1
00	Without bellow for devices without valve body																				
EE	PTFE																				
0	No bus communication	J	Profinet																		
C	AS-i (62 slaves, analogue profile)	K	Modbus TCP																		
G	büS	Q	IO-Link																		
I	EtherNet/IP	Y	Profibus DP-V1																		
<p><b>Key no. 7: Body material</b></p> <table border="1"> <tr><td>00</td><td>For devices without valve body</td></tr> <tr><td>VI</td><td>1.4435 BN2</td></tr> <tr><td colspan="2">Others on request</td></tr> </table>	00	For devices without valve body	VI	1.4435 BN2	Others on request		<p><b>Key no. 14: Approval</b></p> <table border="1"> <tr><td>0</td><td>Without</td></tr> <tr><td>1</td><td>With (select the appropriate <b>variable code</b>)</td></tr> </table>	0	Without	1	With (select the appropriate <b>variable code</b> )										
00	For devices without valve body																				
VI	1.4435 BN2																				
Others on request																					
0	Without																				
1	With (select the appropriate <b>variable code</b> )																				

<b>Key no. V1: Variable codes</b>	
<b>Note: Select all required features</b>	
PL02	Suitable for foodstuffs (conformity with FDA and EG regulation 1935/2004)
MK04	Customised software setting
PX03	With approval / certification for ATEX II 3 GD
Others on request	

<b>Key no. 17: Surface quality</b>	
NO13	Without surface finishing (Ra = 1.6 µm)
NO17	Internal electrically polished (Ra = 0.38 µm - for weld end)
NO23	Internal mechanically polished (Ra = 0.6 µm - for weld end)

<b>Key no. 16: Electrical connections</b>	
KD	With cable gland (not for Type 8696 and not for bus communication)
MP	With multipole circular plug M12 (not for Type 8694 with AS-i)
SK	Flat cable clip with 1 m cable (only for AS-i)

**Key no. 8: Connection**

**Note:**

**0000** - Code for units without body; other connections (e.g. clamp) / connection sizes on request

Seat nominal diameter	Threaded connection	Welded connection			
	DIN ISO 228-1	DIN 11850 R. 0	DIN 11866 R. A / DIN 11850 R. 2	DIN 11866 R. B / ISO 4200	DIN 11866 R. C / ASME BPE
DN 1.5 / DN 3 / DN 4	<b>GM82</b> - G ¼	<b>SC40</b> - 6.0x1.0 <b>SC41</b> - 8.0x1.0	<b>SD40</b> - 13.0x1.5	<b>SA78</b> - 10.2x1.6	<b>SA90</b> - ¼" (6.35x0.89) <b>SA91</b> - ⅜" (9.53x0.89) <b>SA92</b> - ½" (12.7x1.65)
DN 6	<b>GM83</b> - G ⅜	<b>SC41</b> - 8.0x1.0	<b>SD40</b> - 13.0x1.5	<b>SA78</b> - 10.2x1.6 <b>SA40</b> - 13.5x1.6	<b>SA91</b> - ⅜" (9.53x0.89) <b>SA92</b> - ½" (12.7x1.65)
DN 8 / DN 10	<b>GM83</b> - G ⅜ <b>GM84</b> - G ½	<b>SC42</b> - 10.0x1.0 (only DN 8)	<b>SD40</b> - 13.0x1.5 <b>SD42</b> - 19.0x1.5	<b>SA40</b> - 13.5x1.6 <b>SA41</b> - 17.2x1.6	<b>SA92</b> - ½" (12.7x1.65) <b>SA93</b> - ¾" (19.05x1.65)

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