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Калининград (4012)72-03-81	Оренбург (3532)37-68-04	Уфа (347)229-48-12
Калуга (4842)92-23-67	Пенза (8412)22-31-16	Челябинск (351)202-03-61
Кемерово (3842)65-04-62	Пермь (342)205-81-47	Череповец (8202)49-02-64
Киров (8332)68-02-04	Ростов-на-Дону (863)308-18-15	Ярославль (4852)69-52-93

**Единый адрес:** [btk@nt-rt.ru](mailto:btk@nt-rt.ru) **Веб-сайт:** [www.burkert.nt-rt.ru](http://www.burkert.nt-rt.ru)

## РЕГУЛИРУЮЩИЕ КЛАПАНЫ

**Type 2730\_31**

Pneumatically actuated diaphragm valve with CLASSIC control actuator



**2/2 way diaphragm valve with pneumatic position-actuator (Type Classic)**

- Valve housing in PVC, PP, PVDF and stainless steel
- Stainless steel surfaces in contact with the product from Ra ≤ 0.38 µm...1.6 µm (optionally electropolished)
- Diaphragms available in various materials and designs
- Available in all common connection sizes and variants

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

**Can be combined with**

	<b>Type 8692</b> ▶ Digital electropneumatic Positioner for the integrated mounting on process control valves
	<b>Type 8693</b> ▶ Digital electropneumatic process controller for the integrated mounting on process control valves
	<b>Type 8694</b> ▶ Digital electropneumatic positioner for the integrated mounting on process control valves
	<b>Type 8635</b> ▶ Digital electropneumatic Positioner SideControl
	<b>Type 8792</b> ▶ Digital electropneumatic Positioner SideControl
	<b>Type 8793</b> ▶ Digital electropneumatic Process Controller SideControl

**Type description**

The externally controlled diaphragm valves, Type 2730 and 2731, consist of a pneumatically operated piston actuator, a built-in positioner, a diaphragm and a 2 way valve housing. The proven and robust actuator with plastic housing ensures use under hygienic or aggressive environmental conditions. The flow-efficient valve housing with little dead space enables high flow rates and a wide range of possible uses. The valve housing and the diaphragm are available in all common materials and designs. The actuator has a compact, autoclavable design (PPS version). The integration of automation TopControl units 8692/8693/8694 and SideControl units 8635/8792/8793 is possible in all expansion stages (can be retrofitted). An explosion-proof ATEX/IECEx device variant is available.

The add-on housing is available in plastic or stainless steel. The actuator is equipped with an integrated, optical position indicator as standard, optionally a min./max. stroke limitation can be installed.

## 1. General technical data

Product properties	
Dimensions	Detailed information can be found in chapter "4. Dimensions" on page 6.
Material	
Forged body (VS) <sup>1.)</sup>	Forged stainless steel 316L/1.4435/BN2, Fe <0.5 %/C ≤0.03 %
Cast body (VG) <sup>1.)</sup>	Cast stainless steel 316L/1.4435
Plastic body (PV; PP; PD) <sup>1.)</sup>	PVC (PVC-U); PP; PVDF
Diaphragm	EPDM (AD) <sup>1.)</sup> , PTFE/EPDM (EA) <sup>1.)</sup> , advanced PTFE/EPDM (EU) <sup>1.)</sup> , Gylon®/EPDM laminated (ER) <sup>1.)</sup>
Actuator	PA
Diaphragm size	65, 80, 100 mm
Standard surface quality	
Forged body (VS) <sup>1.)</sup>	Internal electrically polished : Ra ≤0.38 µm (NO17) <sup>1.)</sup> (ASME BPE SF4/DIN HE4) (external forged surface electrically polished) Internal mechanically polished : Ra ≤0.5 µm (NO14) <sup>1.)</sup> (ASME BPE SF1) (external forged surface)
Cast body (VG) <sup>1.)</sup>	Internal electrically polished : Ra ≤0.6 µm (NO16) <sup>1.)</sup> (ASME BPE SF6) (external cast surface electrically polished) Internal mechanically polished : Ra ≤0.76 µm (NO06) <sup>1.)</sup> (ASME BPE SF3/DIN H2) (external cast surface)
Performance data	
Max. pilot pressure	6 bar, see "5.2. Medium pressure" on page 16
Pilot air ports	Thread G ¼
Medium data	
Medium	Neutral gases and fluids, highly purified, sterile, aggressive or abrasive medium (see <b>Resistance Chart</b> ▶)
Medium temperature	
EPDM (AD)	- 10...+143 °C (steam sterilisation + 150 °C for 60 min)
PTFE/EPDM (EA)	- 10...+130 °C (steam sterilisation + 140 °C for 60 min)
Advanced PTFE/EPDM (EU)	- 5...+143 °C (steam sterilisation + 150 °C for 60 min)
GYLON®/EPDM laminated (ER)	- 5...+130 °C (steam sterilisation + 140 °C for 60 min)
Plastic body	See "3.2. Pressure temperature diagram for plastic body" on page 5
Control medium	Neutral gases, air
Process/Port connection & communication	
Nominal diameter	DN65...DN100 (2½" ... 4")
Port connections	
For stainless steel body	
Welded connection	DIN EN ISO 1127/ISO 4200/DIN 11866 series B DIN 11850 series 2/DIN 11866 series A/DIN EN 10357 series A ASME BPE/DIN 11866 series C
Clamp connection	DIN 32676 series A (DIN-pipe) DIN 32676 series B (ISO-pipe) ASME BPE
For plastic body	
Loose flange	DN65
Fixed flange	DN80...DN100
Environment and installation	
Installation position/Installation	See <b>operating manual</b> ▶
Ambient temperature	
PA Actuator size ≥ 175 mm	- 10...+50°C <sup>5.)</sup>

1.) This information is part of the product key (see product enquiry form at the end of this data sheet)

2.) Further versions on request

3.) Tube valve body (VP) also available with flange and threaded connections

4.) With plastic housings temperature limitation by housing material possible

5.) For standard version

## 2. Approvals

**Note:**

If you need one of these certificates, please contact your Bürkert partner.

Approvals/ Conformity/ Certificate <sup>1.)</sup>	Description
	<b>ATEX/IECEX<sup>2.)</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
<b>TA air</b>	TA air <sup>3.)</sup>
	3-A (3-A Sanitary Standards Symbol Administrative Council) <sup>4.)</sup>
	The diaphragms made of EPDM (AD), PTFE/EPDM (EA), advanced PTFE/EPDM (EU) and GYLON®/EPDM laminated (ER) are suitable for use with food and beverages (acc. to EC Regulation 1935/2004/EC).
	Diaphragms made of EPDM (AD), PTFE/EPDM (EA), advanced PTFE/EPDM (EU) and GYLON®/EPDM laminated (ER) are acc. to USP Class VI tested.
<b>FDA</b>	Diaphragms made of EPDM (AD), PTFE/EPDM (EA), advanced PTFE/EPDM (EU) and GYLON®/EPDM laminated (ER) comply with the Code of Federal Regulations published by the FDA (Food and Drug Administration, USA).

- 1.) Further approvals/conformity clarification/certificates on request
- 2.) Only in combination with variable code "PX51" (see product enquiry form at the end of this data sheet)
- 3.) Only in combination with variable code "PM01" (see product enquiry form at the end of this data sheet)
- 4.) Only in combination with variable code "PE05" (see product enquiry form at the end of this data sheet)

## 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](#)

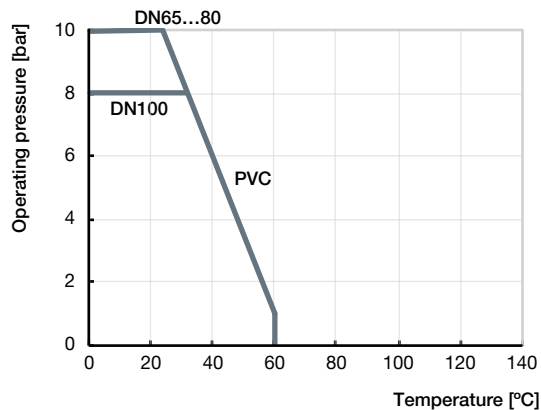
DTS 1000490461 EN Version: - Status: RL (released | freigegeben | valide) printed: 22.04.2021

### 3.2. Pressure temperature diagram for plastic body

**Note:**

This information is important for material selection. Observe the permissible operating pressure depending on the medium temperature.

DN65...100

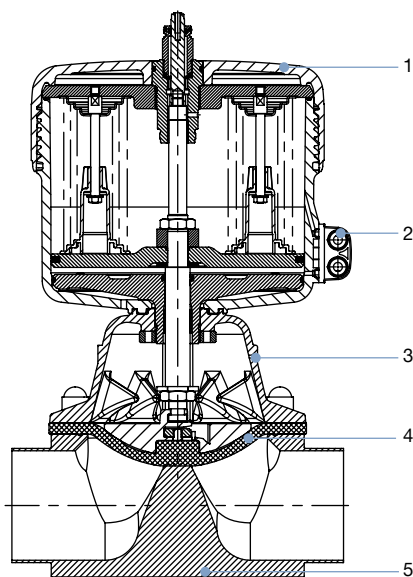


### 3.3. Material specifications

Actuator size 175 and 225

**Note:**

Exemplary representation may differ from the actual product.



No.	Element	Material
1	Cover	Polyamide PA
2	Pilot air ports	Stainless steel 1.4305
3	Attachment housing	Stainless steel 1.4308
4	Diaphragm	EPDM (AD), PTFE/EPDM (EA), advanced PTFE/EPDM (EU), Gylon®/EPDM laminated (ER)
5	Valve body	See "1. General technical data" on page 3

### 3.4. Example of available membrane materials

The diaphragms have been developed to meet the unique challenges of hygienic and sterile requirements. Bürkert offers diaphragms with precise material composition and high accuracy. Bürkert diaphragms are available in a wide range of materials which have been tested and proven in applications in the food and beverage, biotechnology, pharmaceutical and cosmetics industries. The diaphragms are tested during development and production to ensure reliability under difficult process conditions.



- EPDM (AD)
- PTFE/EPDM (EA)
- advanced PTFE/EPDM (EU)
- Gylon®/EPDM laminated (ER)

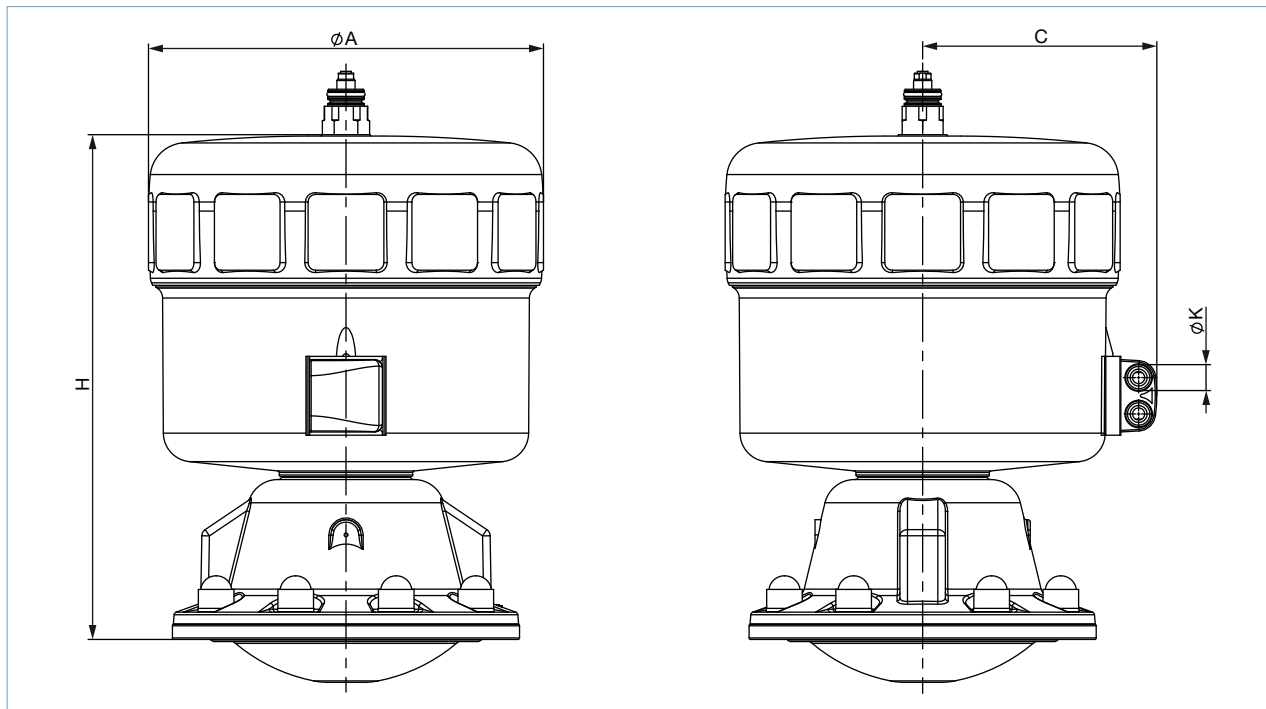
For further information please refer to our flyer “Diaphragm competence for hygienic applications” on our [website](#) ▶.

## 4. Dimensions

### 4.1. Actuator

**Note:**

Dimensions in mm, unless otherwise stated



DN	Actuator size $\varnothing$	$\varnothing A$	C	K	H
65	175	210	130	G ¼	337
80	175	210	130	G ¼	337
	225	261	155	G ¼	334
100	225	261	155	G ¼	334

DTS 1000490461 EN Version: - Status: RL (released | freigegeben | validé) printed: 22.04.2021

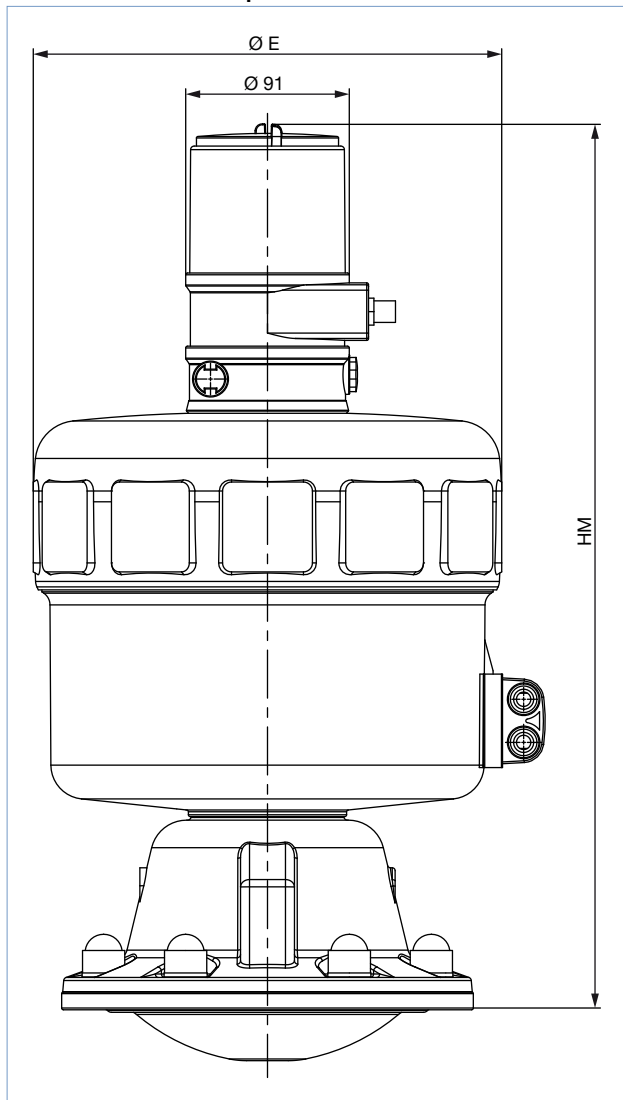
4.2. Valve system

CLASSIC actuator with positioner 8692 / process controller 8693

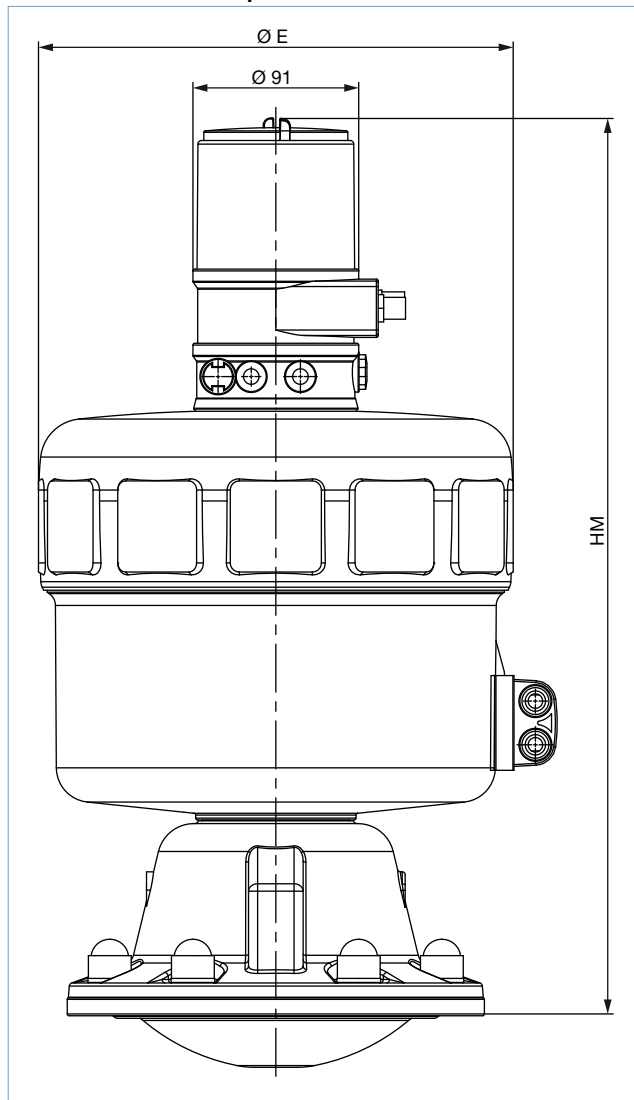
Note:

Dimensions in mm, unless otherwise stated

CLASSIC actuator with positioner 8692



CLASSIC actuator with process controller 8693



DN	Actuator size Ø	ØE	HM
65	175	210	497
80	175	210	497
	225	261	495
100	225	261	492

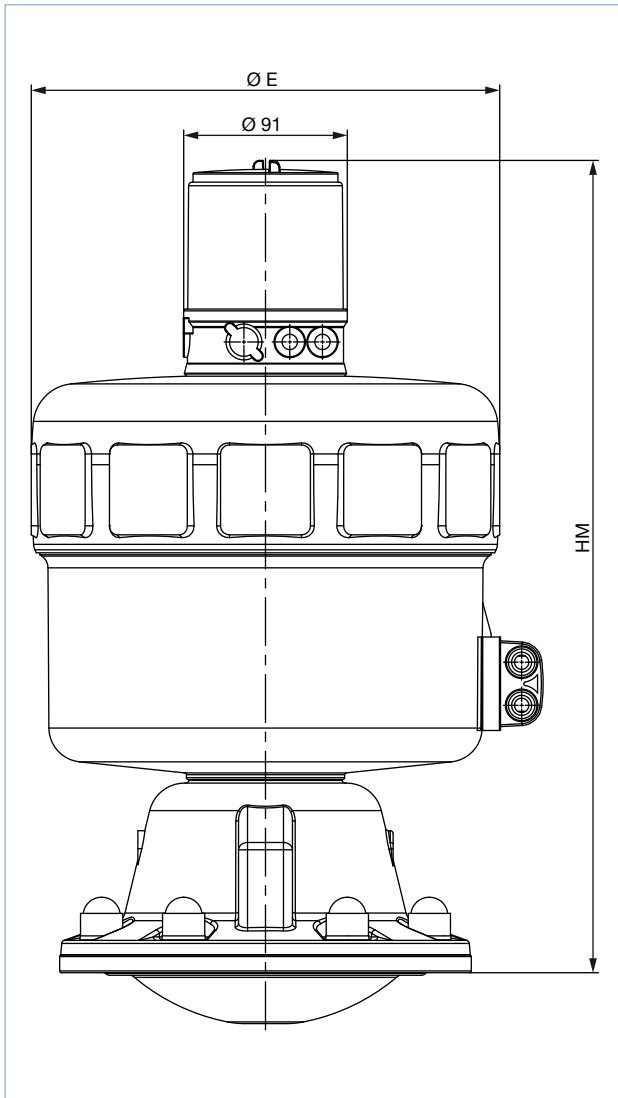
DN	Actuator size Ø	ØE	HM0
65	175	210	497
80	175	210	497
	225	261	495
100	225	261	492

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**CLASSIC actuator with process controller 8694**

**Note:**

Dimensions in mm, unless otherwise stated



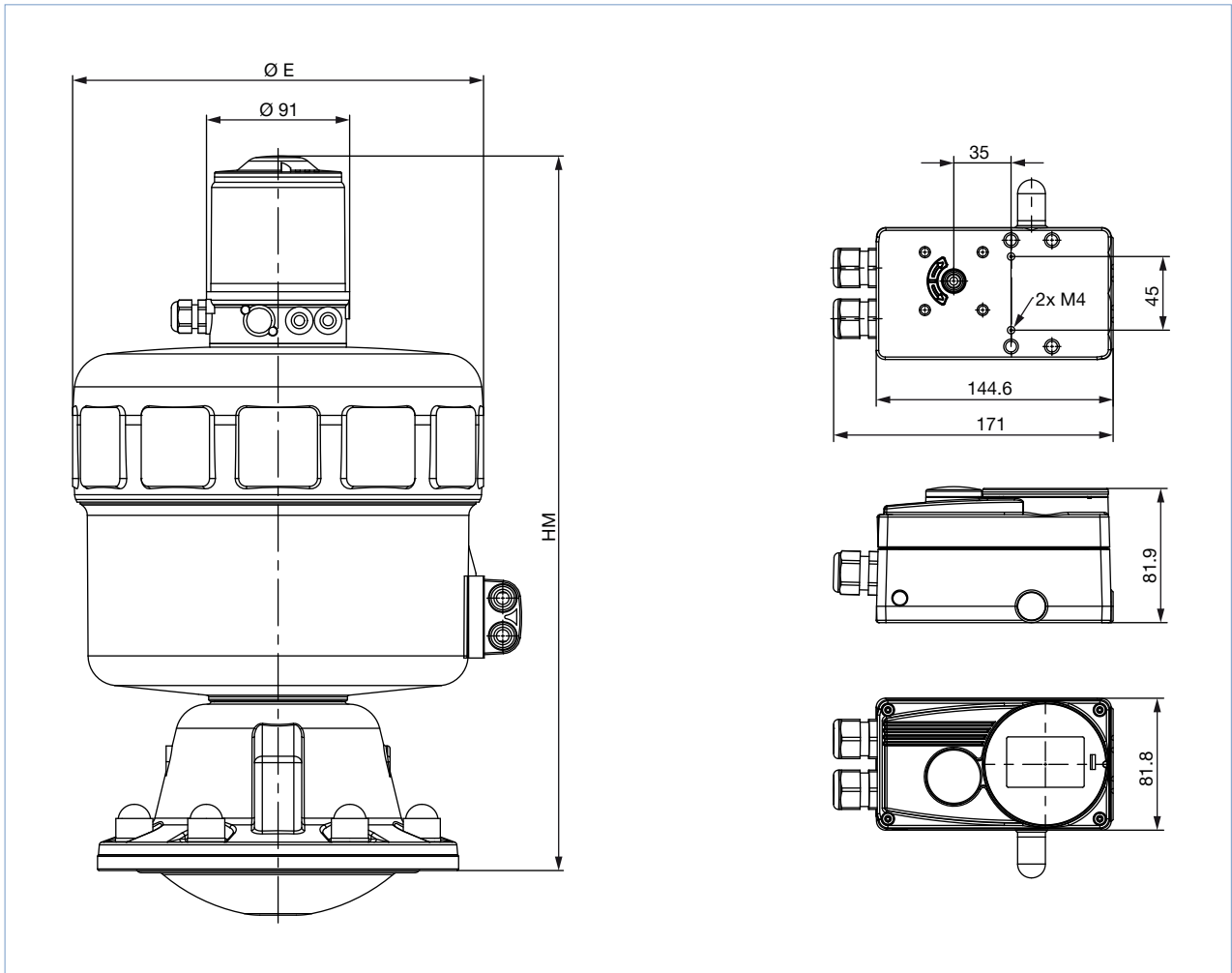
DN	Actuator size Ø	ØE	HM
65	175	210	457
80	175	210	457
	225	261	454
100	225	261	452



**CLASSIC actuator with positioner SideControl 8791/8792/8793 and remote sensor 8798**

**Note:**

Dimensions in mm, unless otherwise stated

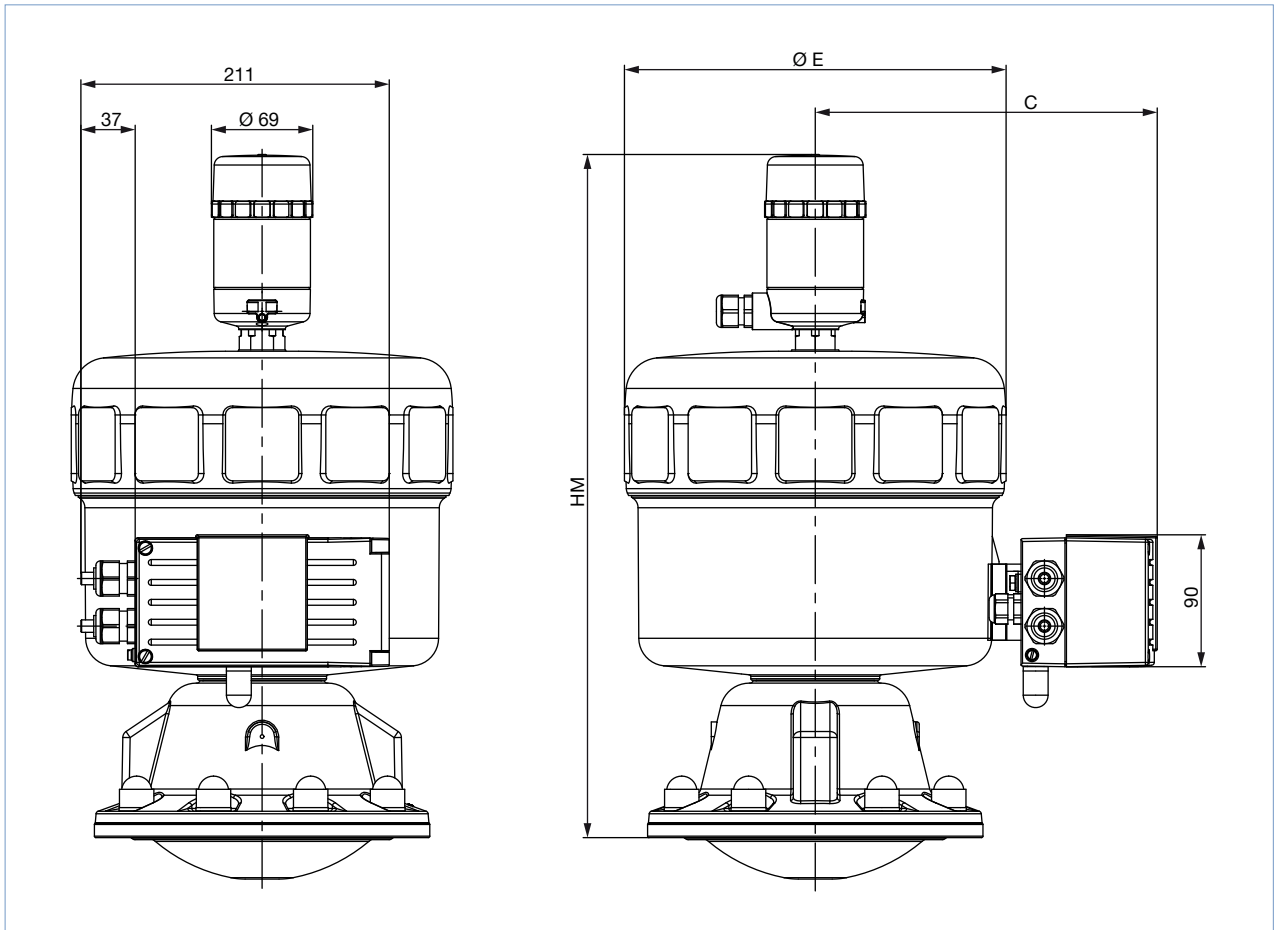


DN	Actuator size Ø	ØE	HM
65	175	210	458
80	175	210	458
	225	261	455
100	225	261	453

**CLASSIC actuator with position sensor and SideControl 8635**

**Note:**

Dimensions in mm, unless otherwise stated



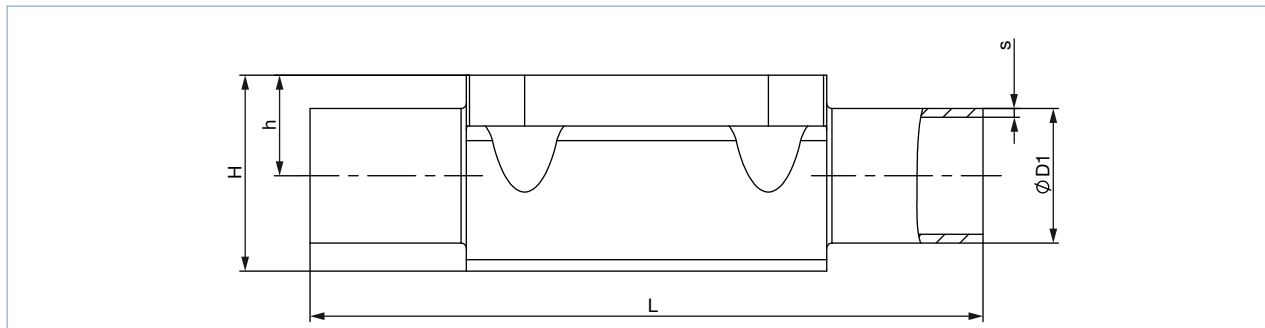
DN	Actuator size Ø	ØE	C	HM
65	175	210	209	458
80	175	210	209	458
	225	261	234	455
100	225	261	234	453

DTS 1000490461 EN Version: - Status: RL (released | freigegeben | validé) printed: 22.04.2021

### 4.3. Forged body (VS) with welded connection

**Note:**

- Dimensions in mm, unless otherwise stated
- For detailed information on the draining angle, please refer to the “Additional manual Type 2xxx 3xxx” on our website (see [operating instructions](#) ▶).



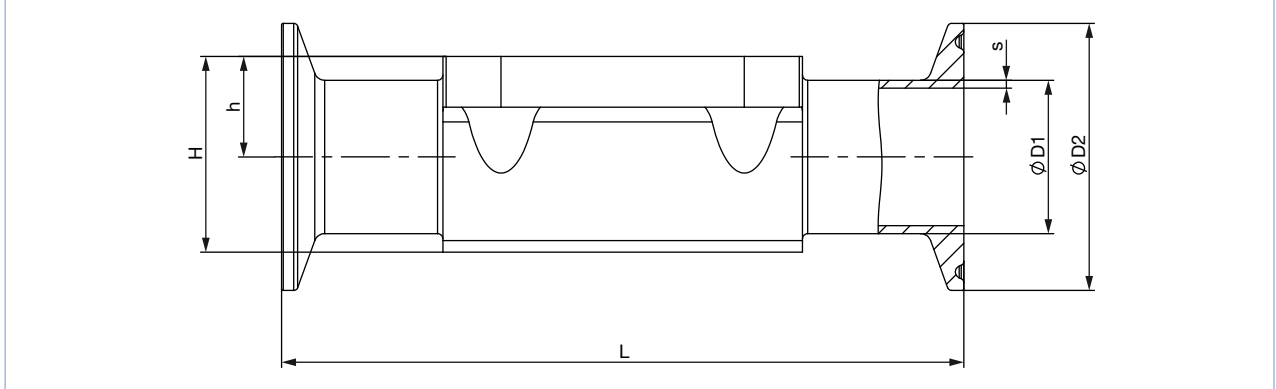
Diaphragm size	Port connection DN	ØD1	s	L	h	H	Product key <sup>1.)</sup>
<b>DIN EN ISO 1127/ISO 4200/DIN 11866 series B</b>							
80	65	76.1	2.0	250	51	98.1	SA48
80	80	88.9	2.3	250	51	98.1	SA49
<b>DIN 11850 series 2/DIN 11866 series A/DIN EN 10357 series A</b>							
80	65	70	2.0	250	51.0	98.1	SD48
80	80	85	2.0	250	51.0	98.1	SD49
<b>ASME BPE/DIN 11866 series C</b>							
80	2½"	63.5	1.65	250	51.0	98.1	SODJ
80	3"	76.2	1.65	250	51.0	98.1	SODK
<b>BS 4825</b>							
80	80	63.5	1.65	250	51.0	98.1	SODJ
80	80	76.2	1.65	250	51.0	98.1	SODK

1.) This information is part of the product key (see product enquiry form at the end of this data sheet).

#### 4.4. Forged body (VS) with clamp connection

**Note:**

- Dimensions in mm, unless otherwise stated
- For detailed information on the draining angle, please refer to the “Additional manual Type 2xxx 3xxx” on our website (see **operating instructions** ▶).



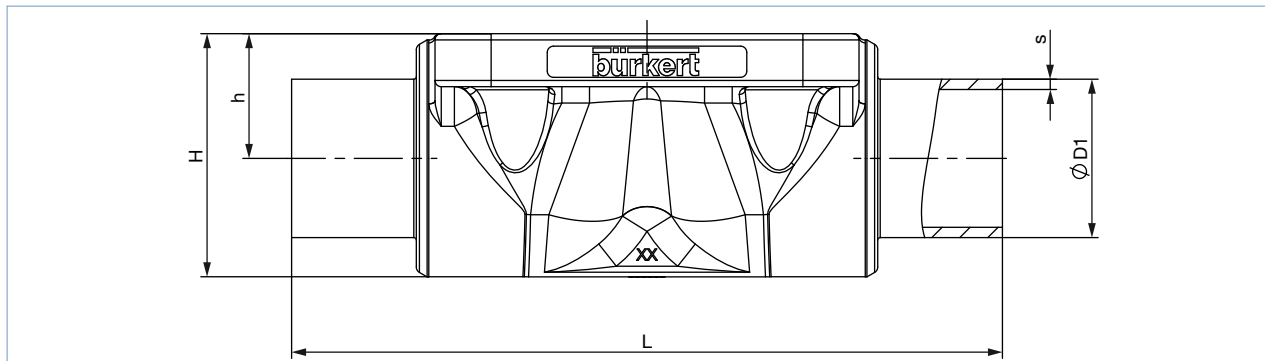
Diaphragm size	Port connection DN	ØD1	s	ØD2	L	h	H	Product key <sup>1.)</sup>	Variable Code <sup>1.)</sup>
<b>ASME BPE</b>									
65	2½"	63.5	1.65	77.5	249	43	83.5	TG07	–
80	2½"	63.5	1.65	77.5	216	51	98.1	TG07	–
80	3"	76.2	1.65	91.0	222	51	98.1	TG08	–

1.) This information is part of the product key (see product enquiry form at the end of this data sheet).

#### 4.5. Cast body (VG) with welded connection

##### Note:

- Dimensions in mm, unless otherwise stated
- For detailed information on the draining angle, please refer to the “Additional manual Type 2xxx 3xxx” on our website (see [operating instructions](#) ▶).



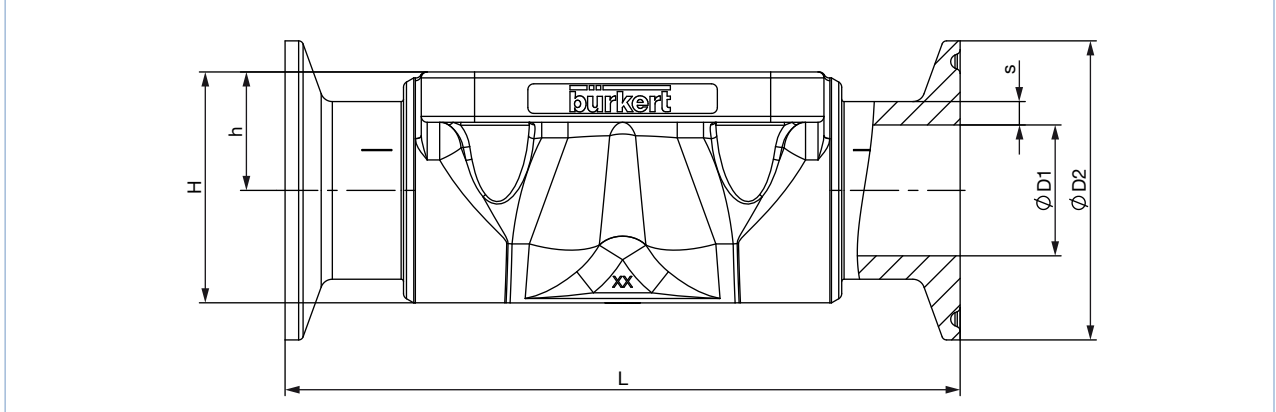
Diaphragm size	Port connection DN	ØD1	s	L	h	H	Product key <sup>1.)</sup>
<b>DIN EN ISO 1127/ISO 4200/DIN 11866 series B</b>							
65	65	76.1	2.0	192	43.0	82.0	SA48
80	80	76.1	2.0	250	51.0	101.0	SA48
80	80	88.9	2.3	250	51.0	101.0	SA49
100	100	114.3	2.3	295	63.5	123.5	SA39
<b>DIN 11850 series 2/DIN 11866 series A/DIN EN 10357 series A</b>							
65	65	70	2.0	192	43.0	82.0	SD48
80	80	85	2.0	250	51.0	101.0	SD49
100	100	104	2.0	295	63.5	123.5	SD50
<b>ASME BPE/DIN 11866 series C</b>							
65	2½"	63.5	1.65	192	43.0	82.0	SODJ
80	3"	76.2	1.65	250	51.0	101.0	SODK
100	4"	101.6	2.11	295	63.5	123.5	SODL
<b>BS 4825</b>							
65	65	63.5	1.65	192	43.0	82.0	SODJ
80	80	76.2	1.65	250	51.0	101.0	SODK
100	100	101.6	2.11	295	63.5	123.5	SODL

1.) This information is part of the product key (see product enquiry form at the end of this data sheet).

#### 4.6. Cast body (VG) with clamp connection

**Note:**

- Dimensions in mm, unless otherwise stated
- For detailed information on the draining angle, please refer to the “Additional manual Type 2xxx 3xxx” on our website (see [operating instructions](#) ▶).



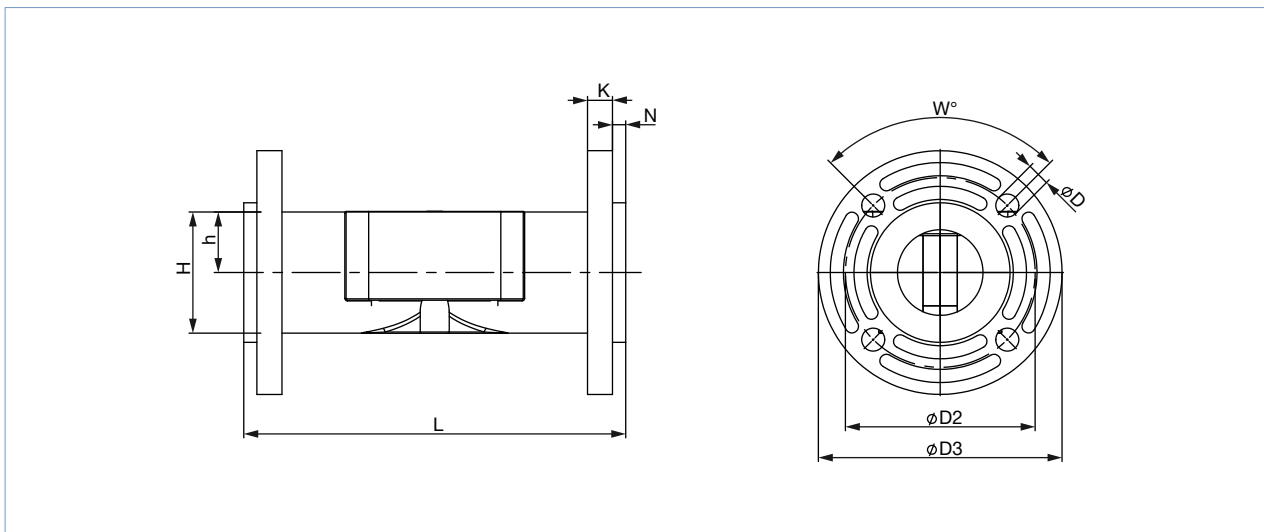
Diaphragm size	Port connection DN	ØD1	s	ØD2	L	h	H	Product key <sup>1.)</sup>
<b>ASME BPE</b>								
65	2½"	63.5	1.65	77.5	249.2	43.0	82.0	TG07
80	3"	76.2	1.65	91	306.2 (222)	51.0	101.0	TG08
100	4"	101.6	2.11	119	352.2	63.5	123.5	TG09

1.) This information is part of the product key (see product enquiry form at the end of this data sheet).

4.7. Plastic body (PV, PD, PP) with flange connection

**Note:**

Dimensions in mm, unless otherwise stated



Diaphragm size	L	ØD2	ØD3	K	H	h	ØD	W	N	Product key <sup>1.)</sup>
<b>PVC-U (PV), PVDF (PD) and PP (PP)</b>										
65	290	145	185	19	92	47	18	4x90°	10	FL30
80	310	160	200	36	107	50	18	8x45°	–	FF31
100	350	180	225	35	134.5	65.5	18	8x45°	–	FF31

1.) This information is part of the product key (see product enquiry form at the end of this data sheet).

## 5. Device/Process connections

### 5.1. Flow characteristics

For further information please use our data sheet on flow characteristics on our homepage [Type 273x Flow-rate curves for diaphragm valves](#) ▶

### 5.2. Medium pressure

#### Information for control function A

##### Note:


- For low operating pressures, optional versions with reduced spring force (**EC04**) are recommended.
- Pressure data [bar]: Overpressure to atmospheric pressure. Valve closes dynamically against max. operating pressure.
- Information for control function B and I on request.

Diaphragm size	Actuator size Ø	Pilot pressure	Max. operating pressure for seal material	
			EPDM, FKM	PTFE/EPDM, advanced PTFE/EPDM, GYLON®/EPDM laminated
DN	[mm]	[bar]	[bar]	[bar]
65	175 (K)	5.0...6	8	5
80	175 (K)	5.0...6	5	4.5
	225 (L)	5.0...6	10	7 <sup>1.)</sup>
100	225 (L)	5.0...6	8	4


2.) Max. operating pressure for GYLON®/EPDM laminated is 8.5 bar





## 6. Product accessories

Process controller TopControl	
Type 8693 ▶ Actuator size Ø 175/225 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, DeviceNet, 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 175/225 mm</b>	<b>Description</b> <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, DeviceNet, 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 175/225 mm</b>	<b>Description</b> <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>
	

Process controller SideControl Remote	
Type 8793 ▶ with Remote Sensor 8798 ▶ Actuator size Ø 175/225 mm	Description
	<p>The intelligent digital positioner/process controller Type 8793 is designed for mounting on lift or swivel drives with standardization in accordance with IEC 534 - 6 or VDI/VDE 3845 and is designed for demanding control tasks. The version with remote position sensor Type 8798 is used to control Bürkert process control valves. It is operated via a backlit graphic display. The initialization of process and positioner can be done automatically by means of TUNE-Function. Here the type of controlled system is automatically recognized and the appropriate controller structure with the corresponding optimum parameter set is determined.</p> <p><b>Features</b></p> <ul style="list-style-type: none"> <li>• Universal control system for single and double-acting actuators</li> <li>• Integrated diagnostic functions for valve monitoring</li> <li>• Automatic initialization of the position and process controller by means of TUNE-Function</li> <li>• Ultra dynamic actuating system without internal control air consumption.</li> <li>• Illuminated graphic display with keypad</li> <li>• PROFIBUS DP-V1, DeviceNet, EtherNet/IP, PROFINET, Modbus TCP, Bürkert system bus (büs)</li> <li>• Compact and robust design</li> <li>• Adaptation acc. to IEC 534 - 6 or VDI/VDE 3845 for lift and swivel drives or as remote version on Bürkert process valves</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>• Guaranteed reliability and scheduled maintenance thanks to valve monitoring and diagnostics.</li> <li>• Easy maintenance and process monitoring</li> <li>• Long service life</li> </ul>

Positioner SideControl Remote	
<b>Positioner Type 8792 ▶ with Remote Sensor Type 8798 ▶</b> <b>Actuator size Ø 175/225 mm</b>	<b>Description</b>
	<p>The intelligent digital position/process controller Type 8792 is designed for attachment to lift and swivel drives with standardization according to IEC 534 - 6 or VDI/VDE 3845 for demanding control tasks. The Type 8798 version with remote position sensor is used to control Bürkert process control valves. It is operated via a backlit graphic display. The initialization of process and positioner can be done automatically by means of TUNE-Function.</p> <p><b>Features</b></p> <ul style="list-style-type: none"> <li>• Illuminated graphic display with touch screen</li> <li>• Universal control system for single and double-acting actuators</li> <li>• Ultra dynamic actuating system without internal control air consumption.</li> <li>• Integrated diagnostic functions for valve monitoring</li> <li>• PROFIBUS DP-V1, DeviceNet, EtherNet/IP, PROFINET, Modbus TCP, Bürkert system bus (bùS)</li> <li>• Compact and robust design</li> <li>• Adaptation acc. to IEC 534 - 6 or VDI/VDE 3845 for lift and swivel drives or as remote version on Bürkert process valves</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 backlit graphic display and keypad.</li> <li>• Guaranteed reliability and scheduled maintenance thanks to valve monitoring and diagnostics.</li> <li>• Long service life</li> </ul>
Positioner SideControl BASIC Remote	
<b>Positioner Type 8791 ▶ with Remote Sensor Type 8798 ▶</b> <b>Actuator size Ø 175/225 mm</b>	<b>Description</b>
	<p>The positioner Type 8791 is designed for mounting on lift or swivel drives with standardization in accordance with IEC 534 - 6 or VDI/VDE 3845 designed for simple control tasks. The variant with the remote sensor Type 8798 is used to control Bürkert process control valves. All operating elements are located inside the housing.</p> <p><b>Features</b></p> <ul style="list-style-type: none"> <li>• Simple design</li> <li>• Universal control system for single and double-acting actuators</li> <li>• Ultra dynamic positioning system without air consumption in steady state</li> <li>• Adaptation according to IEC 534 - 6 or VDI/VDE 3845 for lift and swivel drives or as remote version on Bürkert process valves</li> <li>• AS-Interface, IO-Link, Bürkert system bus (bùS) (only for Positioner Type 8791 BASIC Remote)</li> </ul> <p><b>Customer benefits</b></p> <ul style="list-style-type: none"> <li>• Quick and easy commissioning</li> <li>• Simple device for simple control tasks</li> <li>• Low energy consumption</li> </ul>

Positioner/Process controller with remote SideControl	
Type 8635 ▶ 2-wire, intrinsically safe Actuator size Ø 175/225 mm	Description
	<p>The Type 8635 is an electro-pneumatic positioner with optional integrated process controller for precise control tasks. The robust design with integrated LCD plain text display was developed for demanding applications in the process industry.</p> <p><b>Customer benefits</b></p> <ul style="list-style-type: none"> <li>• Time-saving algorithms for temperature, flow and pressure PID parameters through Process TUNE function.</li> <li>• Fast and easy menu-driven parameterisation via keyboard input or PROFIBUS PA.</li> <li>• Instrument supply via setpoint signal 4-20 mA</li> <li>• Adaption acc. to IEC534 -6 for stroke and rotary actuators</li> <li>• Robust body made of hard-coated and plastic-coated aluminium</li> <li>• Explosion-proof versions for zone 1, zone 21 or zone 2/22</li> </ul>

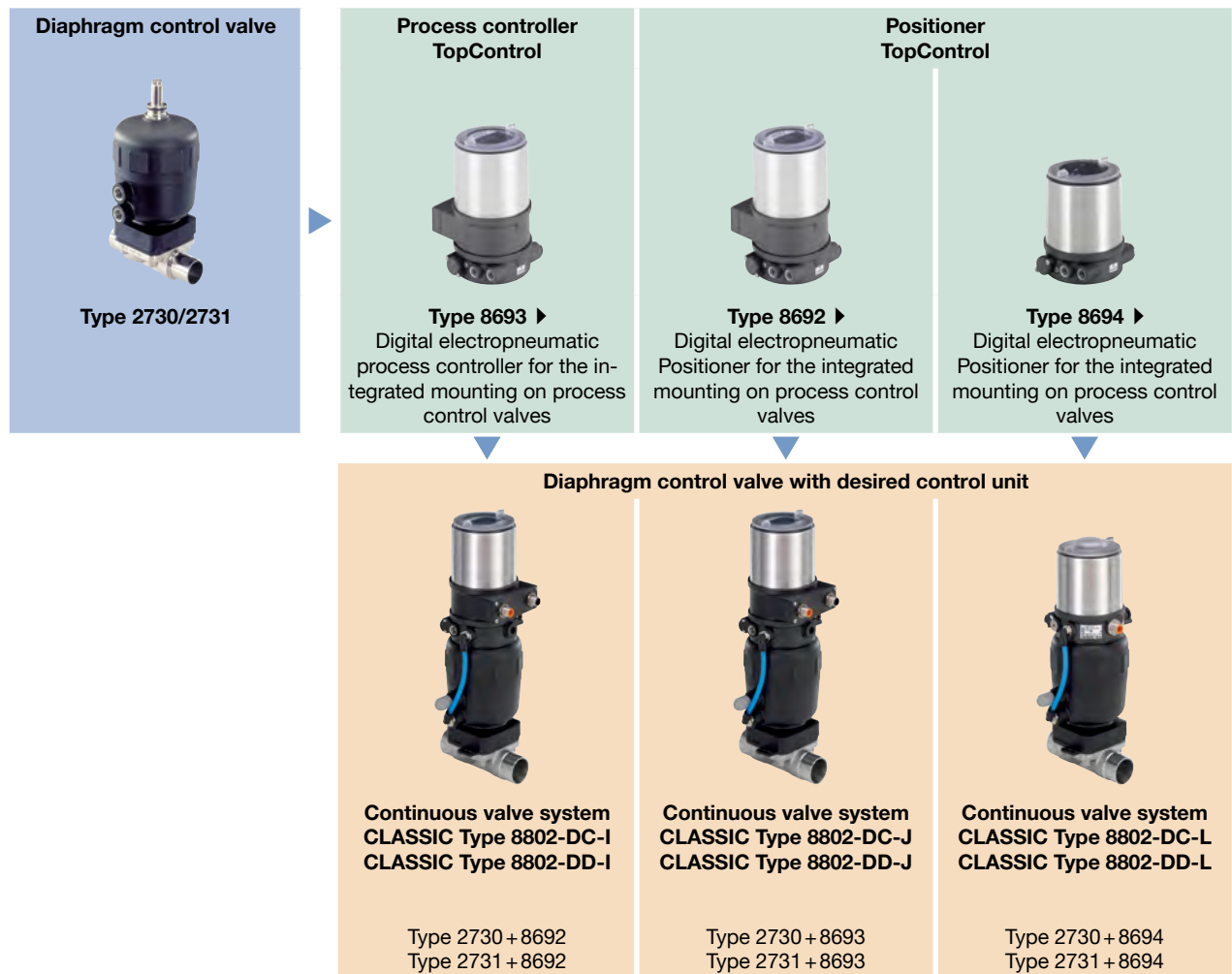
## 7. Networking and combination with other Bürkert products

### 7.1. Possible combinations for continuous CLASSIC valve system Type 8802-DC/DD

The continuous CLASSIC valve system, Type 8802-DC/8802-DD, consists of a diaphragm control valve Type 2730/2731 and a digital electropneumatic **positioner**, Type 8692, a digital electropneumatic **process controller**, Type 8693, a digital electropneumatic **positioner basic**, Type 8694 (below) or a **SideControl** Type 8635 or a electropneumatic **positioner**, Type 8792 or 8793.

**Note:**

- For the configuration of further valve systems, please use the product enquiry form at the end of this document.
- You order two components and receive a completely assembled and tested valve.

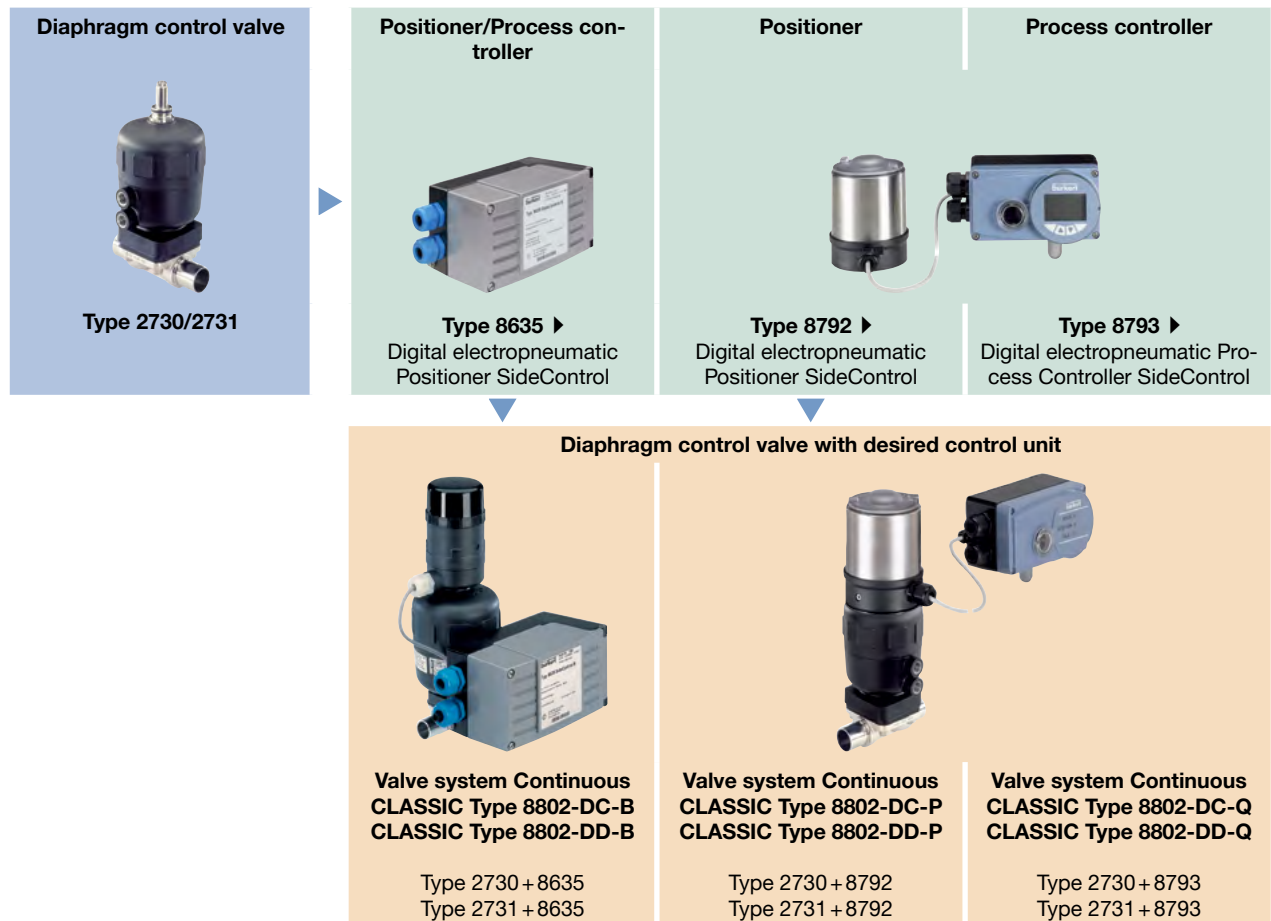


### 7.2. Possible combinations for continuous CLASSIC valve system, Type 8802-DC/DD

The continuous CLASSIC valve system, Type 8802-DC/8802-DD, consists of a diaphragm control valve, Type 2730/2731, and a digital electropneumatic positioner, Type 8692, a digital electropneumatic process controller, Type 8693, a digital electropneumatic positioner basic, Type 8694 (below) or a SideControl, Type 8635, or and a electropneumatic positioner, Type 8792 or 8793.

**Note:**

- For the configuration of further valve systems, please use the product enquiry form at the end of this document.
- You order two components and receive a completely assembled and tested valve.



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## 8. Ordering information

### 8.1. 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.

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### 8.2. 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.

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### 8.3. 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**.



## Specification key - Examples

2 way diaphragm valve					
<b>Type 2030 ▶</b> CLASSIC with plastic body 	<b>Type 2031 ▶</b> CLASSIC with stainless steel body 	<b>Type 2063 ▶</b> INOX with stainless steel body 	<b>Type 2103 ▶</b> ELEMENT with stainless steel or plastic body 	<b>Type 3232 ▶</b> Manually operated with plastic body 	<b>Type 3233 ▶</b> Manually operated with stainless steel body 

T-diaphragm valve			
<b>Type 2032 ▶</b> CLASSIC T-valve 	<b>Type 2064 ▶</b> INOX T-valve 	<b>Type 2104 ▶</b> ELEMENT T-valve 	<b>Type 3234 ▶</b> Manually operated T-valve 

Tank bottom diaphragm valve			
<b>Type 2033 ▶</b> CLASSIC Tank bottom valve 	<b>Type 2065 ▶</b> INOX Tank bottom valve 	<b>Type 2105 ▶</b> ELEMENT Tank bottom valve 	<b>Type 3235 ▶</b> Manually operated tank bottom valve 

	Type	Control function	Nominal diameter diaphragm	Diaphragm material	Body material	Port connection	Port connection	Actuator version	Actuator size	Pilot air port	Actuator	Variable	Variable	Variable
Key Feature	TYP	SF	DN	DWST	WKST	LTA1	LTA2	ANTA	ANTG	STLA	ANTR	VAR1	VAR2	VAR3
Key No. →	1	2	3	4	5	6	6	7	8	9	10	V1	V2	V3

2 way diaphragm valve														
Type 2030 CLASSIC	2030	A	20.0	AD	PV	KM26	-	C	E	-	-			
Type 2031 CLASSIC	2031	A	20.0	AD	VS	SA93	-	C	E	-	-	NK52	NO14	
Type 2063 INOX	2063	A	20.0	AD	VS	SA93	-	H	M	-	-	NK52	NO14	
Type 2103 ELEMENT	2103	A	20.0	AD	PV	KM26	-	G	M	FA01	-			
Type 2103 ELEMENT	2103	A	20.0	AD	VS	SA93	-	G	M	FA01	-	NK52	NO14	
Type 3232	3232	-	20.0	AD	PV	KM26	-	-	-	-	D050			
Type 3233	3233	-	20.0	AD	VS	SA93	-	-	-	-	D051	NK52	NO14	
T-diaphragm valve														
Type 2032 CLASSIC	2032	A	20.0	AD	VH	SODH	SA93	D	E	-	-	NK52	NO14	
Type 2064 INOX	2064	A	20.0	AD	VH	SODH	SA93	-	M	-	-	NK52	NO14	
Type 2104 ELEMENT	2104	A	20.0	AD	VH	SODH	SA93	-	M	FA01	-	NK52	NO14	
Type 3234	3234	-	20.0	AD	VH	SODH	SA93	-	-	-	D050	NK52	NO14	
Tank bottom diaphragm valve														
Type 2033 CLASSIC	2033	A	20.0	AD	VH	SA93	-	D	F	-	-	NK52	NO14	
Type 2065 INOX	2065	A	20.0	AD	VH	SA93	-	-	M	-	-	NK52	NO14	
Type 2105 ELEMENT	2105	A	20.0	AD	VH	SA93	-	-	M	FA01	-	NK52	NO14	
Type 3235	3235	-	20.0	AD	VH	SA93	-	-	-	-	D050	NK52	NO14	

1.) NK52, NOxx only for stainless steel bodies

## Key Legend

**Note:**

- Other versions on request
- Available Type sizes see corresponding data sheet

Key no. 2: Control function (SF)				Key no. 8: Actuator size (ANTG)	
A	Closed with spring force			B	ø 32
B	Open with spring force			C	ø 40
I	Without pressure spring			D	ø 50
Key no. 3: Nominal diameter diaphragm (DN)				E	ø 63
8	25	50	100	F	ø 80
15	32	65		G	ø 100
20	40	80		H	ø 125
Key no. 4: Diaphragm material (DWST)				K	ø 175
AD	EPDM			L	ø 225
EA	PTFE/EPDM			M	ø 70
EU	Advanced PTFE/EPDM laminated			N	ø 90
ER	Gylon®/EPDM laminated			P	ø 130
Key no. 5: Body material (WKST)				Key no. 9: Pilot air port (ELEMENT) (STLA)	
PD	PVDF (Polyvinylidene fluoride)			FA01	Pilot air port Push-In 6/4, 1/4"
PP	PP (Polypropylene)			FA02	Pilot air port G1/8
PV	PVC-U (Polyvinyl chloride)			FA03	Interface ELEMENT control
VG	Stainless steel precision casting 1.4435/316L			Key no. 10: Actuator (ANTR)	
VH	Stainless steel block material 1.4435/316L			D050	Handwheel and attachment PPS
VI	Stainless steel block material 1.4435 BN2/316L ASME BPE			D051 <sup>1.)</sup>	Handwheel PPS and attachment St. St.
VP	Stainless steel tube 1.4435 BN2/316L			D052 <sup>2.)</sup>	Handwheel and attachment St. St.
VS	Stainless steel-forged 1.4435 BN2/316L ASME BPE			1.) Alternatively D058	
Key no. 6: Port connection (LTA1, LTA2)				2.) Alternatively D059 or D102	
Listed in detail below				Key no. V1, V2, ...: Variable code (VAR1, VAR2, VAR3)	
Key no. 7: Actuator version (ANTA)				NK52 <sup>3.)</sup>	Acceptance test certificate 3.1 according to EN 10204
C	PA actuator (only CLASSIC)			NO14 <sup>3.)</sup>	Mechanically polished Ra ≤ 0.5 µm (ASME BPE SF1)
D	PPS actuator (only CLASSIC)			NO17 <sup>3.)</sup>	Electropolished Ra ≤ 0.38 µm (ASME BPE SF4 / DIN HE4)
G	ELEMENT design actuator (only ELEMENT)			NO06 <sup>3.)</sup>	Mechanically polished Ra ≤ 0.76 µm (ASME BPE SF3 / DIN H2)
H	St. St. actuator (only INOX)			NO16 <sup>3.)</sup>	Electropolished Ra ≤ 0.6 µm (ASME BPE SF6)
				EC04	Reduced spring force
				3.) NK52, NOxx only for stainless steel bodies	

**Key no. 6: Port connection (LTA)**

Weld connection								
DN [mm]	EN ISO 1127 / ISO 4200 DIN 11866 R. B	SMS 3008	DIN 11850 R. 0	DIN 11850 R. 1	DIN 11850 R. 2 DIN 11866 R. A	DIN 11850 R. 3	BS4825	ASME BPE DIN 11866 R. C
4	-	-	SC40-6.0x1.0	-	-	-	-	-
6	SA78-10.2x1.6	-	SC41-8.0x1.0	-	-	-	-	SA89-3.17x0.56
8	SA40-13.5x1.6	-	SC42-10.0x1.0	-	-	-	SODB-6.35x1.2	SA90-6.35x0.89
10	SA41-17.2x1.6	-	-	SF40-12.0x1.0	SD40-13.0x1.5	SE40-14.0x2.0	SODC-9.53x1.2	SA91-9.53x0.89
15	SA42-21.3x1.6	SA58-12.0x1.0	SC43-18.0x1.5	SF41-18.0x1.0	SD42-19.0x1.5	SE42-20.0x2.0	SODD-12.7x1.2	SA92-12.7x1.65
20	SA43-26.9x1.6	SA59-18.0x1.0	SC44-22.0x1.5	SF42-22.0x1.0	SD43-23.0x1.5	SE43-24.0x2.0	SODE-19.05x1.2	SA93-19.05x1.65
25	SA44-33.7x2.0	SA60-25.0x1.2	SC45-28.0x1.5	SF43-28.0x1.0	SD44-29.0x1.5	SE44-30.0x2.0	-	SODF-25.4x1.65
32	SA45-42.4x2.0	SA61-33.7x1.2	SC46-34.0x1.5	SF44-34.0x1.0	SD45-35.0x1.5	SE45-36.0x2.0	-	-
40	SA46-48.3x2.0	SA62-38.0x1.2	SC47-40.0x1.5	SF45-40.0x1.0	SD46-41.0x1.5	SE46-42.0x2.0	-	SODH-38.1x1.65
50	SA47-60.3x2.0	SA63-51.0x1.2	SC48-52.0x1.5	SF46-52.0x1.0	SD47-53.0x1.5	SE47-54.0x2.0	-	SODI-50.8x1.65
65	SA48-76.1x2.0	SA64-63.5x1.6	-	-	SD48-70.0x2.0	-	-	SODJ-63.5x1.65
80	SA49-88.9x2.3	SA65-76.1x1.6	-	-	SD49-85.0x2.0	-	-	SODK-76.2x1.65
100	SA39-114.3x2.3	SA66-101.6x2.0	-	-	SD50-104.0x2.0	-	-	SODL-101.6x2.11

**Product Enquiry Form**  
**Diaphragm valve with straight**  
**way valve, T-valve or tank bottom**  
**valve**



Clamp connection					
DN [mm]	Clamp 34,0 similar to DIN 32676 R. B (ISO tube (ISO4200))	DIN 32676 R. A (DIN tube (DIN11850))	DIN 32676 R. B (ISO tube (ISO4200))	ASME BPE	BS 4825 (Clamp BS 4825-3, tube BS 4825-1)
8	TC51-13.5×1.6 Cl: 34.0	TD40-10.0×1.0 Cl: 25.0	TC40-13.5×1.6 Cl: 25.0	TG 50-6.35×0.89 Cl: 25.0	-
10	TC41-17.2×1.6 Cl: 34.0	TD41-13.0×1.5 Cl: 34.0	TC53-17.2×1.6 Cl: 25.0	TG 01-9.53×0.89 Cl: 25.0	-
15	TC42-21.3×1.6 Cl: 34.0	TD42-19,0×1.5 Cl: 34.0	TC52-21.3×1.6 Cl: 50.5	TG 02-12.7×1.65 Cl: 25.0	TH42-12.7×1.2 Cl: 25.0
20	-	TD43-23.0×1.5 Cl: 34.0	TC43-26.9×1.6 Cl: 50.5	TG 03-19.05×1.65 Cl: 25.0	TH43-19.05×1.2 Cl: 25.0
25	-	TD44-29.0×1.5 Cl: 50.5	TC44-33.7×2.0 Cl: 50.5	TG 04-25.4×1.65 Cl: 50.5	-
32	-	-	-	-	-
40	-	TD46-41.0×1.5 Cl: 50.5	TC46-48.3×2.0 Cl: 64.0	TG 05-38.1×1.65 Cl: 50.5	-
50	-	TD47-53.0×1.5 Cl: 64.0	TC47-60.3×2.0 Cl: 77.5	TG 06-50.8×1.65 Cl: 64.0	-
65	-	-	TC48-76.1×2.0 Cl: 91.0	TG 07-63.5×1.65 Cl: 77.5	-
80	-	-	TC49-88.9×2.3 Cl: 106.0	TG 08-76.2x,65 Cl: 91.0	-
100	-	-	TC50-114.3×2.3 Cl: 130.0	TG 09-101.6×2.11 Cl: 119.0	-

Plastic connection					
DN [mm]	Welded connection socket (only WKST=PD, PP)	Welded connection threaded socket (only WKST=PD, PP)	Adhesive bond socket (only WKST=PV)	Adhesive bond threaded socket (only WKST=PV)	Loose-type flange (up to DN65) Fixed flange (from DN80)
15	SS25 - ø20	SM25 - ø20	KS25 - ø20	KM25 - ø20	FL24
20	SS26 - ø25	SM26 - ø25	KS26 - ø25	KM26 - ø25	FL25
25	SS27 - ø32	SM27 - ø32	KS27 - ø32	KM27 - ø32	FL26
32	SS28 - ø40	SM28 - ø40	KS28 - ø40	KM28 - ø40	FL27
40	SS29 - ø50	SM29 - ø50	KS29 - ø50	KM29 - ø50	FL28
50	SS30 - ø63	SM30 - ø63	KS30 - ø63	KM30 - ø63	FL29
65	-	-	-	-	FL30
80	-	-	-	-	FF31
100	-	-	-	-	FF32

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## Positioner / process controller TopControl for control valves of the ELEMENT series



For actuator size  $\varnothing 70/\varnothing 90/\varnothing 130$  mm

Process Controller TopControl Type 8693 ▶		Positioner TopControl Type 8692 ▶	
	<ul style="list-style-type: none"> <li>Intelligent digital positioners and process controllers with integrated PID controller for accurate process control</li> <li>Lighted graphic display with membrane keypad</li> <li>Tune function for automatic start-up</li> <li>Field bus communication</li> <li>Diagnostic functions</li> </ul>		<ul style="list-style-type: none"> <li>Digital positioner without sensor input</li> <li>Lighted graphic display with membrane keypad</li> <li>Tune function for automatic start-up</li> <li>Field bus communication</li> <li>Diagnostic functions</li> </ul>
<b>Pneumatic function</b> Single-acting                  Double-acting		<b>Electrical connection</b> Cable gland                          M12 Multipole connection Without	
<b>Digital Communication</b> PROFIBUS DP-V1                  DeviceNet                  EtherNet/IP PROFINET                          Bürkert Systembus (bùS) <sup>1.)</sup> Modbus TCP                          Without		<b>Approvals</b> ATEX cat. 3GD, IECEx                  Without	
<b>Analogue feedback</b> 0/4...20 mA                          0/4...20 mA + 2 binary outputs		<b>Digital outputs and diagnostics</b> Yes    No	

1.) Based on CANopen

For actuator size  $\varnothing 70/\varnothing 90/\varnothing 130$  mm

For actuator size  $\varnothing 50$  mm

Positioner TopControl BASIC Type 8694 ▶		Positioner TopControl BASIC Type 8696 ▶	
	<ul style="list-style-type: none"> <li>Status LED and DIP switches</li> <li>Tune-function for automatic start-up</li> <li>Positioning system for single-acting actuators</li> <li>Field bus communication</li> </ul>		<ul style="list-style-type: none"> <li>Status LED and DIP switches</li> <li>Tune-function for automatic start-up</li> <li>Positioning system for single-acting actuators</li> </ul>
<b>Pneumatic function</b> Single-acting		<b>Electrical connection</b> Cable gland <sup>1.)</sup> M12 Multipole connection Without	
<b>Digital Communication</b> AS-Interface <sup>1.)</sup> IO-Link                  Bürkert Systembus (bùS) <sup>2.)</sup> Without		<b>Approvals</b> ATEX cat. 3GD, IECEx                  Without	
<b>Analogue feedback</b> Yes    No			



1.) Only available for Type 8694. Not available for Type 8696.

2.) Based on CANopen

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## Positioner / process controller SideControl Remote for control valves of the ELEMENT series



For actuator size  $\varnothing 70/\varnothing 90/\varnothing 130$  mm

Process Controller SideControl Type 8793 with Remote sensor Type 8798		Positioner SideControl Type 8792 with Remote sensor Type 8798	
	<ul style="list-style-type: none"> <li>Intelligent digital positioners and process controllers with integrated PID controller</li> <li>Lighted graphic display with membrane keypad</li> <li>Tune-function for automatic start-up, linearization and optimization of process characteristics</li> <li>Field bus communication</li> <li>Diagnostic functions</li> </ul>		<ul style="list-style-type: none"> <li>Digital positioner without sensor input</li> <li>Lighted graphic display with membrane keypad</li> <li>Tune function for automatic start-up</li> <li>Field bus communication</li> <li>Diagnostic functions</li> </ul>
<b>Pneumatic function</b>		<b>Electrical connection</b>	
Single-acting	Single- and double-acting	Cable gland <sup>1.)</sup>	M12 Multipole connection
<b>Digital communication</b>		<b>Approvals</b>	
PROFIBUS DP-V1	DeviceNet	EtherNet/IP	ATEX cat. 3GD, IECEx
PROFINET	Bürkert Systembus (büS) <sup>2.)</sup>		Without
Modbus TCP	Without		
<b>Analogue feedback</b>		<b>Digital outputs and diagnostics</b>	
0/4...20 mA	0/4...20 mA + 2 binary outputs	Yes	No
0/5...10 V	0/5...20 V + 2 binary outputs		

1.) With a cable gland the selection of a fieldbus communication PROFIBUS, EtherNet etc. is not possible. Only variants with M12 Multipole are offered as standard for fieldbus communication.

2.) Based on CANopen

For actuator size  $\varnothing 70/\varnothing 90/\varnothing 130$  mm

Positioner SideControl BASIC Type 8791 with Remote sensor Type 8798		Positioner SideControl BASIC IP20 Type 8791 with Remote sensor Type 8798	
	<ul style="list-style-type: none"> <li>„simple positioner“</li> <li>Universal positioning system for single and double acting actuators</li> <li>Tune function for automatic start-up</li> <li>Field bus communication</li> </ul>		<ul style="list-style-type: none"> <li>„simple positioner“</li> <li>Universal positioning system for single and double acting actuators</li> <li>Tune function for automatic start-up</li> <li>Switchgear cabinet assembly</li> </ul>
<b>Pneumatic function</b>		<b>Electrical connection</b>	
Single-acting (actuator size $\varnothing 70/90$ )	Single- and double-acting (actuator size $\varnothing 130$ )	Cable gland <sup>1.)</sup>	M12 Multipole connection
<b>Digital communication</b>		<b>Approvals</b>	
AS-Interface <sup>2.)</sup> :		ATEX cat. 3GD, IECEx <sup>2.)</sup>	Without
Analogue profile S-7.3.4 (only set point)			
Analogue profile S-7.A.5 (set point and feedback)			
IO-Link	Bürkert Systembus (büS) <sup>3.)</sup>	Without	
<b>Analogue feedback</b>			
0/4...20 mA	No		

1.) With a cable gland, the selection of a fieldbus communication AS-Interface is not possible. For fieldbus communication, only variants with M12 Multipole are offered as standard.

2.) Only available for Positioner SideControl BASIC Type 8791. Not available for Positioner SideControl BASIC IP20 Type 8791.

3.) Based on CANopen, IO-Link and büS not available for IP20 Type 8791

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