



## Pneumatically operated 2/2-way angle seat valve ELEMENT for decentralized automation

- High flow rates
- Long service life
- Easy integration of automation units with ELEMENT
- Flow-optimised stainless steel valve body with sleeve, clamp or weld connection
- Suitable for steam

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

### Can be combined with

	<b>Type 8690</b> Pneumatic control for decentralised automation of ELEMENT process valves
	<b>Type 8691</b> Control head for decentralised automation of ELEMENT process valves
	<b>Type 8695</b> Control head for decentralised automation of ELEMENT process valves
	<b>Type 8697</b> Pneumatic control for decentralised automation of ELEMENT process valves
	<b>Type 8801</b> ELEMENT On/Off Valve Systems with decentralized automation – overview
	<b>Type 8840</b> Modular process valve cluster – distribution and collecting

### Type description

The Type 2100 angle seat valve is specially optimised for decentralized process automation and fulfils the tough criteria in process environments. Its unique design allows easy the integration of automation units in all expansion stages, from electrical/optical position feedback to pneumatic control and integrated fieldbus interface. Maximum service life and tightness are achieved by the proven self-adjusting v-seal packing gland. The highly integrated system of valve and automation unit is characterised by its compact and smooth design, integrated pilot air ducts, protection classes IP65/67, NEMA Type 4X and high resistance to chemicals.

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## 1. General technical data

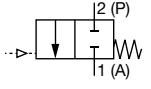
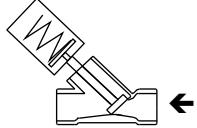
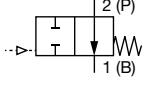
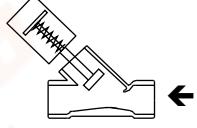
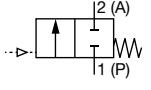
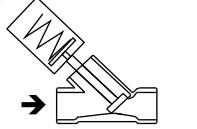
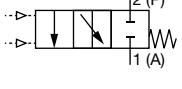
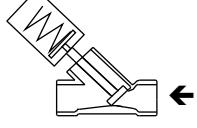
<b>Product properties</b>	
Dimensions	Detailed information can be found in chapter “ <a href="#">5. Dimensions</a> ” on page 7.
Material	Detailed information can be found in chapter “ <a href="#">4. Materials</a> ” on page 6.
Design	Angle seat valve
Nominal diameter	DN 10...DN 80, NPS ¾...NPS 3
Safety setting in case of power failure	Normally closed (control function A), normally open (control function B)
Flow direction	Flow to open (below seat), Flow to close (above seat)
<b>Performance data</b>	
Operating pressure	0 bar(g)...25 bar(g), vacuum up to -0.9 bar (g) (option), see “ <a href="#">6.2. Operating limits</a> ” on page 15
Nominal pressure	PN 25 (DIN EN 1333), Class 150 (DIN EN 1759)
Pilot pressure	2.5 bar(g)...10 bar(g), see “ <a href="#">6. Performance specifications</a> ” on page 12
K <sub>v</sub> value	4.8 m <sup>3</sup> /h...140 m <sup>3</sup> /h, see “ <a href="#">6. Performance specifications</a> ” on page 12
<b>Medium data</b>	
Medium	Steam, water, neutral gases, alcohol, oils, fuels, hydraulic fluids, salt solution, alkali solutions, organic solvents, for fuel gases of category I, II and III acc. to Gas Appliances Regulation (EU) 2016/426 and oxygen
Medium temperature	-40 °C...230 °C, see “ <a href="#">6.2. Operating limits</a> ” on page 15
Viscosity	Max. 600 mm <sup>2</sup> /s
Control medium	Air, neutral gases
<b>Process/Port connection &amp; communication</b>	
<b>Port connection</b>	
Threaded connection	G (DIN ISO 228-1) NPT (ASME B 1.20.1) Rc (ISO 7-1)
Welded connection	DIN EN ISO 1127 / ISO 4200 / DIN 11866 B DIN 11850 2 / DIN 11866 A ASME BPE / DIN 11866 C SMS 3008
Clamp connection	DIN 32676 B (pipe ISO 4200) DIN 32676 A (pipe DIN 11850 2) ASME BPE
Pilot air port	Push-in connector (external Ø 6 mm or ¼") or thread G ½" (on request)
<b>Approvals and certificates</b>	
Conformity	Food contact 1935/2004(EG), FDA Drinking water Pressure equipment directive Gas Appliances Regulation Machinery Directive, see “ <a href="#">3. Approvals</a> ” on page 5
Explosion proof	Explosion proof ATEX / IECEx, see “ <a href="#">3. Approvals</a> ” on page 5
Material certificate	2.2, 3.1
<b>Environment and installation</b>	
Ambient temperature	-10 °C...100 °C, see “ <a href="#">6.2. Operating limits</a> ” on page 15
Degree of protection	IP65/67
Installation position	As required, preferably with actuator in upright position

## 2. Circuit functions

### **CAUTION**

Risk of damage due to bursting pipes and bursting equipment when the flow is above the seat.  
In the case of liquid mediums, water hammer can occur causing pipes and the device to burst.

Do not use valves with flow above the seat for liquid mediums..

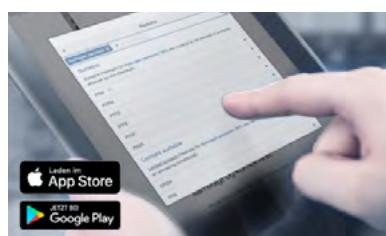
Control function (CF)	Description	
<b>Flow direction below seat for liquids and gases</b>		
	<b>CF: A, pneumatically operated on/off valve</b> 2/2-way Flow direction below seat Normally closed by spring force	
	<b>CF: B, pneumatically operated on/off valve</b> 2/2-way Flow direction below seat Normally open by spring force	
<b>Flow direction above seat for steam and gases</b>		
	<b>CF: A, pneumatically operated on/off valve</b> 2/2-way Flow direction above seat Normally closed by spring force	
<b>3-position actuator</b>		
<b>Flow direction below seat</b> For valves with 3-position actuator an adjustable middle position is possible (option)		
	<b>CF: A, pneumatically operated 3-position valve</b> %3-way Flow direction below seat Normally closed by spring force	

### 3. Approvals

Approvals	Description
FDA 	<b>Food contact</b> Materials in contact with the medium conform to EC Regulation 1935/2004 Materials in contact with the medium conform to FDA (option)
H <sub>2</sub> O 	<b>Drinking water</b> Suitable for use with drinking water for medium temperatures up to 85 °C in accordance with the Drinking Water Ordinance §17 and the assessment principles of the Federal Environment Agency (option).
O <sub>2</sub> 	<b>Oxygen</b> Suitable for use with gaseous oxygen with medium temperature up to 60 °C and operating pressure up to 20 bar(g) (option)
	<b>Explosion proof</b> As category 2 device suitable for zone 1/21 and zone 2/22 (option)  <b>ATEX:</b> II 2G Ex h IIC T4 Gb II 2D Ex h IIIC T135 °C Db  <b>IECEx:</b> Ex h IIC T4 Gb Ex h IIIC T135 °C Db
	<b>Fuel gases</b> Approval according to the European Gas Appliance Regulation (EU) 2016/426, DVGW DIN EN 161 and DIN EN 16678, Class A or Class D, suitable for medium temperature 0...+160 °C, ambient temperature -10...+60 °C and operating pressure 0...16 bar(g) (option)
	<b>Safety requirements</b> Evaluation of functional safety according to IEC 61508 (on request)

## 4. Materials

### 4.1. Chemical Resistance Chart – Burkert resistApp



#### Bürkert resistApp – Chemical Resistance Chart

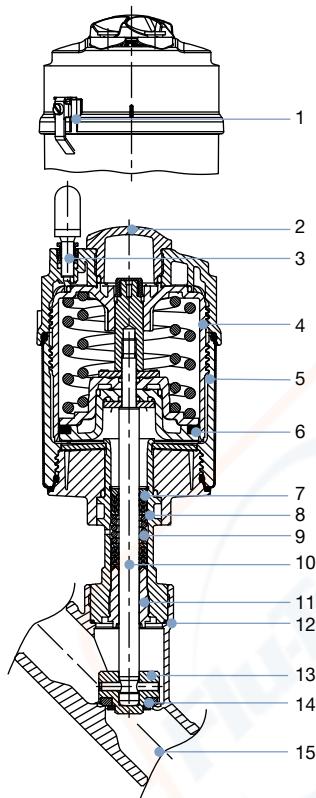
You want to ensure the reliability and durability of the materials in your individual application case? Verify your combination of media and materials on our website or in our resistApp.

[Start Chemical Resistance Check](#)

### 4.2. Material specifications

#### Note:

The lubricants for the spindle seal and actuator are classified acc. to NSF H1.



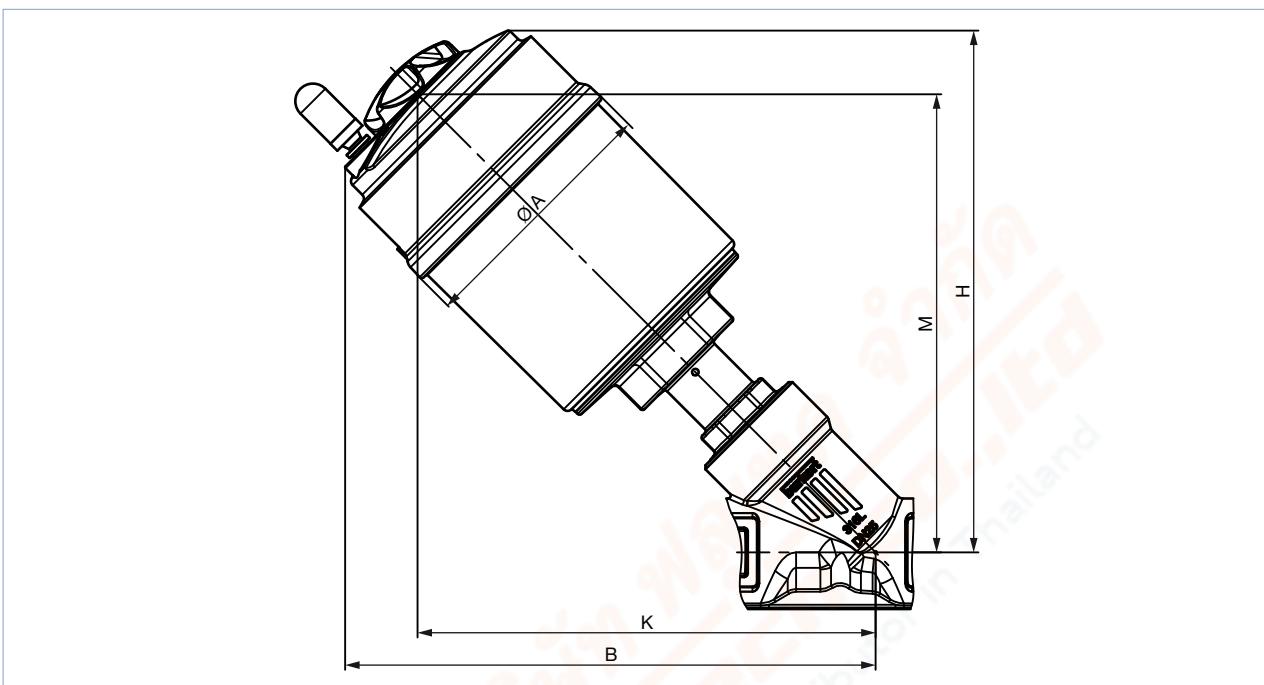
No.	Element	Material
1	Ground terminal	Stainless steel 1.4301/1.4305 only for ATEX version
2	Optical position indicator	Optical position indicator Polysulfone PSU
3	Pilot air ports	Push-in connector PP (Standard) On request: Thread G 1/8" Stainless steel 1.4305
4	Actuator	PPS
5	Cover	Stainless steel 1.4561 (316Ti)
6	Piston seal	FKM
7	Spring	Stainless steel 1.4310
8	Pipe	Stainless steel 1.4401 (316)/1.4404 (316L)
9	Spindle seal	PTFE V-Rings (filled), with spring compensation
10	Spindle	Stainless steel 1.4401 (316)/1.4404 (316L)
11	Spindle guide	PEEK
12	Body seal	Graphite, PTFE (Option)
13	Swivel plate	Stainless steel 1.4401 (316)/1.4404 (316L)
14	Seat seal	PTFE, PEEK (Option)
15	Valve body	Stainless steel CF3M

## 5. Dimensions

### 5.1. Actuator

**Note:**

Dimensions in mm, unless otherwise stated

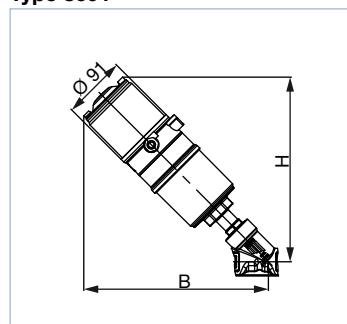
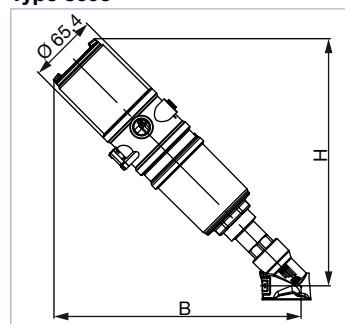
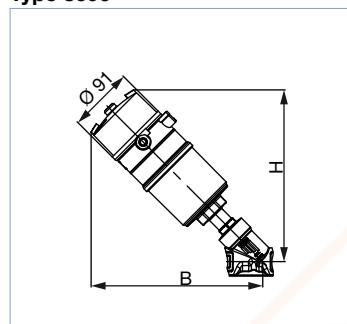
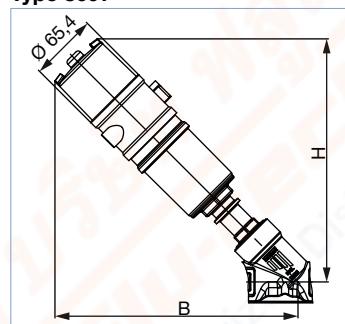


Nominal diameter (pipe)		Actuator size	Ø A	B <sup>1)</sup>	H <sup>1)</sup>	K/M <sup>1)</sup>
DN	NPS	[mm]				
10	3/8	50(D)	64.5	166	163	147
		70(M)	91	182	178	156
15	1/2	50(D)	64.5	166	163	147
		70(M)	91	182	178	156
20	3/4	50(D)	64.5	174	171	155
		70(M)	91	189	186	163
25	1	50(D)	64.5	175	173	156
		70(M)	91	191	188	165
		90(N)	120	229	228	203
32	1 1/4	70(M)	91	201	197	174
		90(N)	120	243	242	217
		130(P)	159	293	293	254
40	1 1/2	70(M)	91	204	201	178
		90(N)	120	246	245	220
		130(P)	159	296	296	257
50	2	70(M)	91	223	219	196
		90(N)	120	262	261	236
		130(P)	159	312	312	273
65	2 1/2	90(N)	120	274	273	248
		130(P)	159	324	324	285
80	3	130(P)	159	344	344	305

1.) Dimensions for B, H, K and M are maximum dimensions and can be up to 6 mm smaller, depending on nominal diameter and standard.

**Valve system On/Off ELEMENT****Actuator with control head and pneumatic controls/position feedback****Note:**

- More information see “[7. Product accessories](#)” on page 17
- Dimensions in mm, unless otherwise stated

**Control head****Type 8691****Type 8695****Pneumatic control unit/Position feedback****Type 8690****Type 8697**

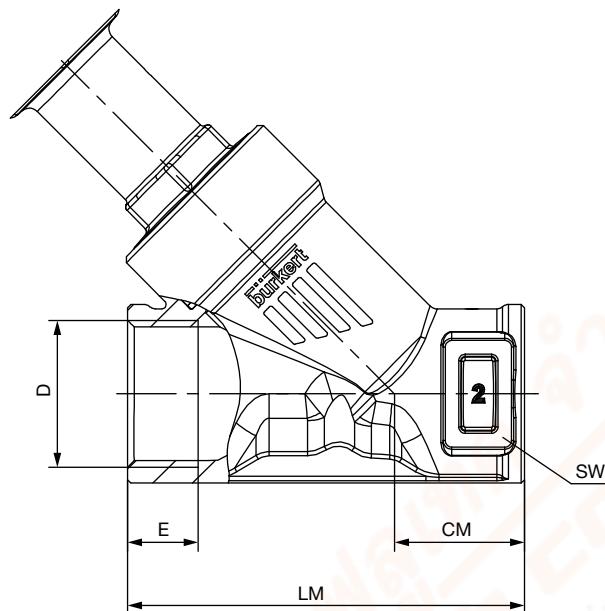
Nominal diameter (pipe)		Actuator size	B/H <sup>1.)</sup> with	
DN	NPS	[mm]	8690 or 8697	8691 or 8695
10	3/8	50(D)	226	239
		70(M)	232	256
15	1/2	50(D)	226	239
		70(M)	232	256
20	3/4	50(D)	234	247
		70(M)	240	264
25	1	50(D)	236	249
		70(M)	242	266
		90(N)	276	303
32	1 1/4	70(M)	252	275
		90(N)	294	318
		130(P)	328	353
40	1 1/2	70(M)	255	279
		90(N)	297	321
		130(P)	334	358
50	2	70(M)	274	297
		90(N)	313	337
		130(P)	351	374
65	2 1/2	90(N)	325	349
		130(P)	362	386
80	3	130(P)	382	406

1.) Dimensions for B and H are maximum dimensions and can be up to 6 mm smaller, depending on nominal diameter and standard.

## 5.2. Body with threaded connection

**Note:**

Dimensions in mm, unless otherwise stated

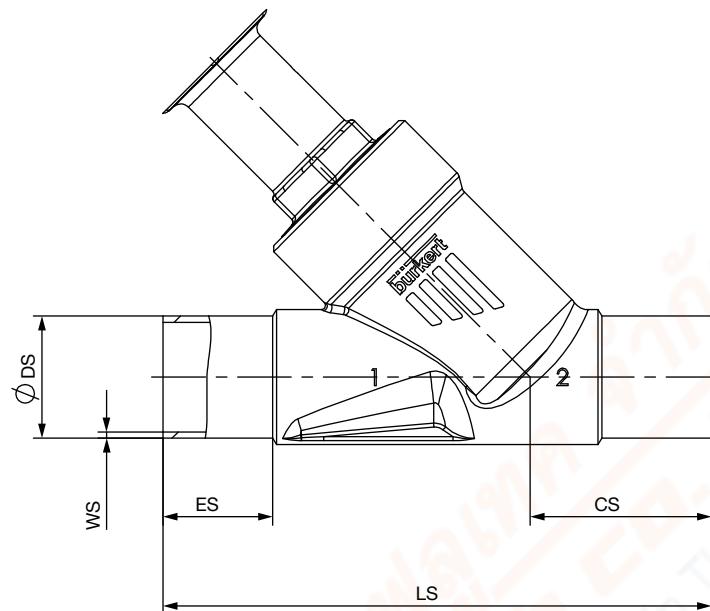


Nominal diameter (pipe)	G (DIN ISO 228-1), NPT (ASME B 1.20.1), Rc (ISO7-1)				CM	LM	SW
	D NPS	E G	NPT	Rc			
15	1/2	14	13.7	13.2	24	65	27
20	3/4	16	14.0	14.5	27	75	34
25	1	18	16.8	16.8	29.5	90	41
32	1 1/4	16	17.3	19.1	36	110	50
40	1 1/2	18	17.3	19.1	35	120	55
50	2	24	17.6	23.4	45	150	70
65	2 1/2	26	23.7	26.7	57	185	85
80	3	28	-	-	71	220	100

### 5.3. Body with welded connection

**Note:**

Dimensions in mm, unless otherwise stated



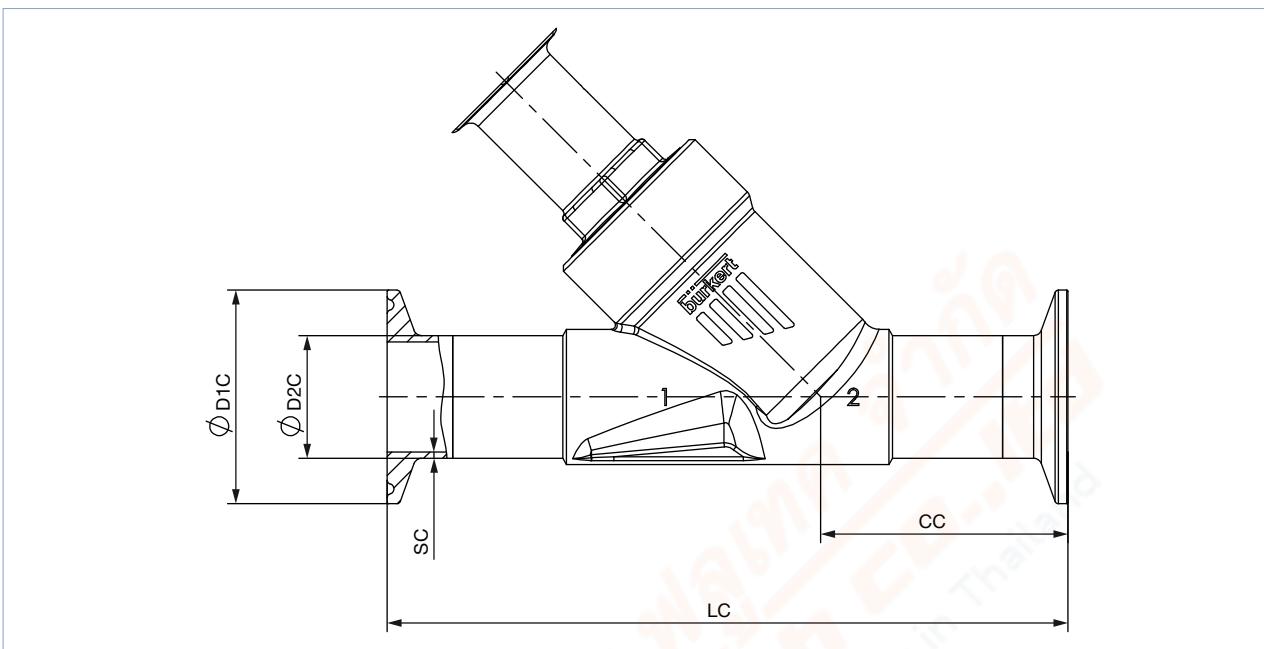
Nominal diameter (pipe)	DIN EN ISO 1127 ISO 4200 DIN 11866 B					DIN 11850 2 DIN 11866 A				
	DN	ES	CS	LS	ØDS	WS	ES	CS	LS	ØDS
15	19	34	100	21.3	1.6	19	34	100	19	1.5
20	20	39	115	26.9	1.6	20	39	115	23	1.5
25	26	43	130	33.7	2.0	26	43	130	29	1.5
32	26	45	145	42.4	2.0	26	45	145	35	1.5
40	26	49	160	48.3	2.0	26	49	160	41	1.5
50	26	50	175	60.3	2.0	26	50	175	53	1.5
65	26	50	210	76.1	2.3	26	50	210	70	2

Nominal diameter (pipe)	ASME BPE DIN 11866 C					
	NPS	ES	CS	LS	ØDS	WS
1/2	30	46	135	12.7	1.65	
3/4	30	52	145	19.05	1.65	
1	30	51	152	25.4	1.65	
1 1/2	30	60	182	38.1	1.65	
2	30	64	210	50.8	1.65	
2 1/2	26	56	230	63.5	1.65	

#### 5.4. Body with clamp connection

**Note:**

Dimensions in mm



Nominal diameter (pipe)	Clamp: DIN 32676 B					Clamp: DIN 32676 A (DN 15 similar DIN 32676 B)				
	Pipe: EN ISO 1127 1 ISO 4200 DIN 11866 B					Pipe: DIN 11850 2 DIN 11866 A				
DN	LC	CC	ØD1 C	ØD2 C	SC	LC	CC	ØD1 C	ØD2 C	SC
15	156	49.0	50.5	21.3	1.6	130	49.5	34.0	19	1.5
20	150	56.5	50.5	26.9	1.6	150	57.0	34.0	23	1.5
25	160	58.0	50.5	33.7	2.0	160	58.5	50.5	29	1.5
32	200	57.5	50.5	42.4	2.0	180	58.0	50.5	35	1.5
40	200	69.0	64.0	48.3	2.0	200	69.5	50.5	41	1.5
50	230	77.5	77.5	60.3	2.6	230	78.0	64.0	53	1.5

Nominal diameter (pipe)	Clamp: ASME BPE				
	Pipe: ASME BPE DIN 11866 C				
NPS	LC	CC	ØD1 C	ØD2 C	SC
1/2	130	49.0	25.0	12.7	1.65
3/4	150	56.5	25.0	19.05	1.65
1	160	58.0	50.5	25.4	1.65
1 1/2	200	69.0	50.5	38.1	1.65
2	230	77.5	64.0	50.8	1.65

## 6. Performance specifications

### 6.1. Fluidic data

Overview of fluidic data for flow below seat (for liquids and gases)

**Note:**

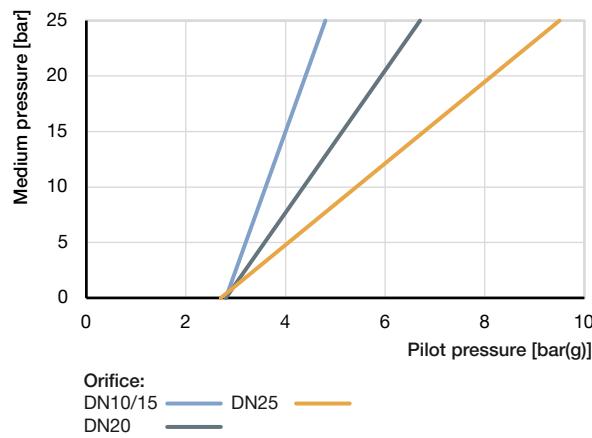
- $K_v$  value [ $m^3/h$ ]: Measured with water at +20 °C, 1 bar pressure at valve inlet and free outlet
- Pressure data [bar]: Overpressure to atmospheric pressure

Nominal diameter		Actuator size	$K_v$ value	Pilot pressure min.	Operating pressure max. [bar(g)]		
					CF: A	CF: B	Seat seal
DN	NPS	[mm]	[ $m^3/h$ ]	CF: A [bar(g)]	PTFE	PEEK	PTFE
10	$\frac{3}{8}$	50(D)	4.8	5.2	25	25	25
		70(M)	4.8	5	25	25	25
15	$\frac{1}{2}$	50(D)	5	5.2	25	25	25
		70(M)	5	5	25	25	25
20	$\frac{3}{4}$	50(D)	10	5.2	16	13.5	25
		70(M)	11	5	25	25	25
25	1	50(D)	14	5.2	9	–	25
		70(M)	18	5	16	13.5	25
		90(N)	18	5	25	25	25
32	$1\frac{1}{4}$	70(M)	27	5	8.5	–	25
		90(N)	28	5	25	19.5	25
		130(P)	28	5	–	25	–
40	$1\frac{1}{2}$	70(M)	38	5	6	–	25
		90(N)	40	5	16	13.5	25
		130(P)	42	4.9	25	25	25
50	2	70(M)	52	–	–	–	16
		90(N)	55	5	10	8	25
		130(P)	62	5	25 (20 <sup>1..j</sup> )	23 (20 <sup>1..j</sup> )	25 (20 <sup>1..j</sup> )
65	$2\frac{1}{2}$	90(N)	85	5	5	–	14
		130(P)	95	5.6	16 (15 <sup>1..j</sup> )	12.5	16 (15 <sup>1..j</sup> )
80	3	130(P)	140	5.6	10	8	11

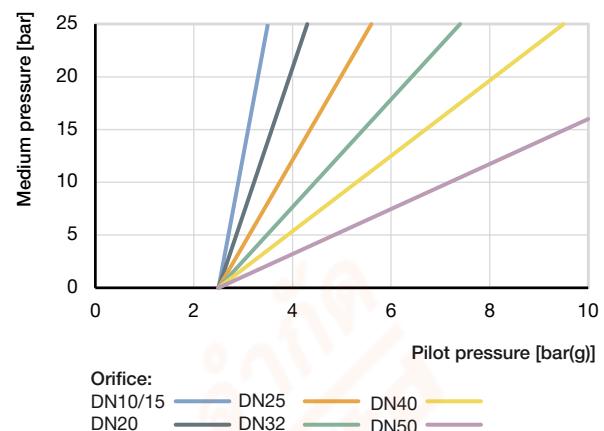
1.) According to pressure equipment directive 2014/68/EU for compressible fluids of group 1 (dangerous gases and vapours acc. to Article 4, paragraph (1), c), first indent)

## Pilot pressure diagram with flow direction below seat (Control function B)

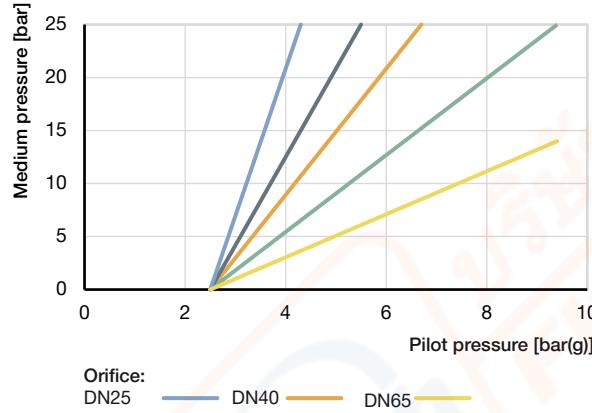
Actuator size: Ø50



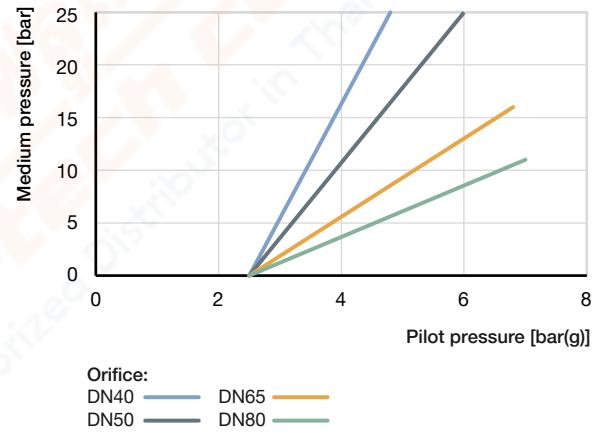
Actuator size: Ø70



Actuator size: Ø90



Actuator size: Ø130



## Overview of fluidic data with flow above seat (for gases and steam)

**CAUTION**

Risk of damage due to bursting pipes and bursting equipment when the flow is above the seat.  
In the case of liquid mediums, water hammer can occur causing pipes and the device to burst.

Do not use valves with flow above the seat for liquid mediums..

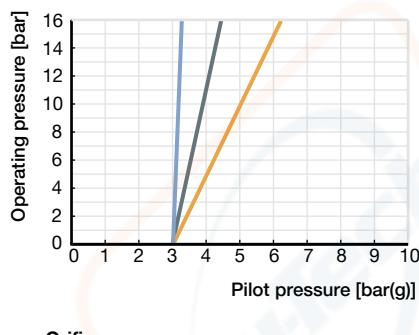
**Note:**

- $K_v$ -value water [ $\text{m}^3/\text{h}$ ]: Measured at +20 °C, 1 bar pressure at valve inlet and free outlet.
- Pressure data [bar]: Overpressure to atmospheric pressure

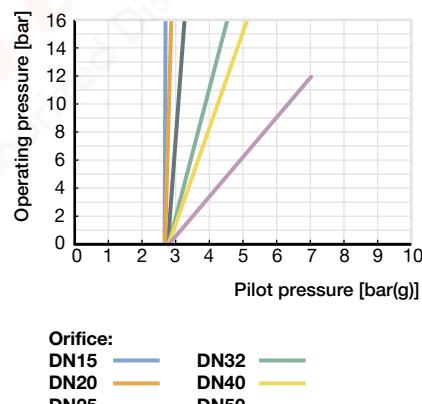
Nominal diameter	Actuator size	$K_v$ value	Operating pressure max. up to +185 °C
DN	[mm]	[ $\text{m}^3/\text{h}$ ]	CF: A [bar(g)] PTFE
15	50(D)	5	16
	70(M)	5.1	16
20	50(D)	10	16
	70(M)	12	16
25	50(D)	15	16
	70(M)	19	16
32	70(M)	28	16
40	70(M)	38	16
	90(N)	40	16
50	70(M)	50	12
	90(N)	55	16

## Pilot pressure diagram with flow direction above seat (Control function A)

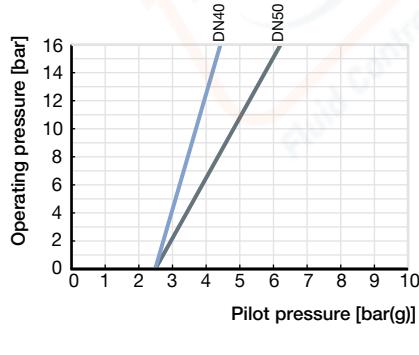
Actuator size: Ø50



Actuator size: Ø70



Actuator size: Ø90

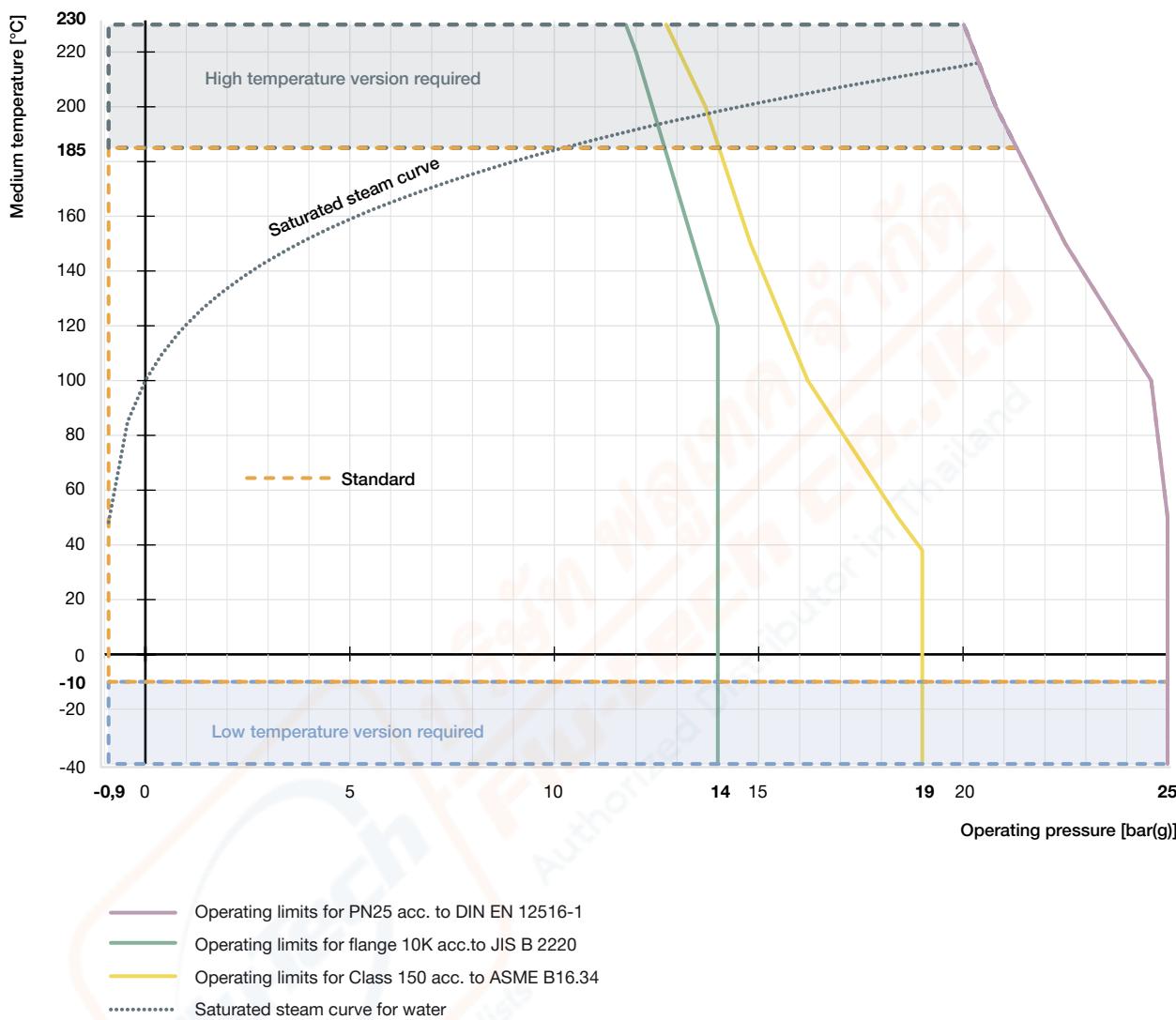


Visit product website [►](#)

## 6.2. Operating limits

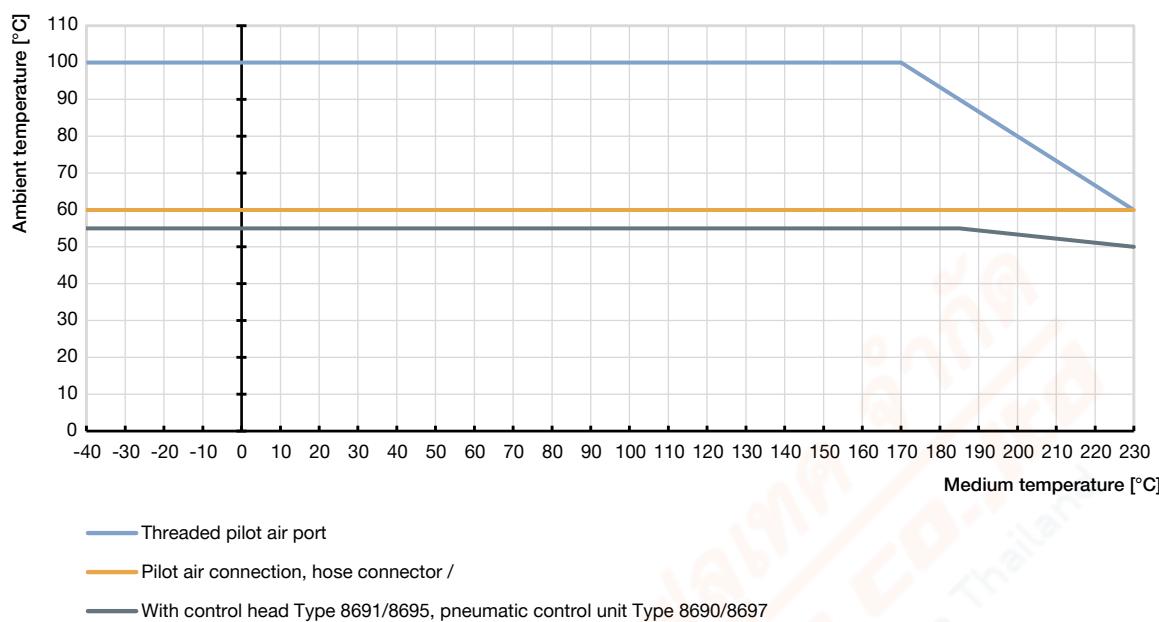
### Operating limits for medium temperature and operating pressure

The operating range of Bürkert process valves is in addition to the maximum operating pressures limited by the nominal pressure according to the relevant standard.



### Operating limits for ambient and medium temperature

ELEMENT On/Off valve



### Operating limits for optional versions

#### High temperature version

By adjusting the spindle seal, this version is suitable for applications with steam, neutral gases and other heat transfer media up to 230 °C.

#### Hot water version

By adjusting the spindle seal, this version is suitable for applications with steam, neutral gases and other heat transfer mediums up to 230 °C.

#### Drinking water version

Materials in contact with the medium are tested for suitability with drinking water up to 85 °C.

#### Vacuum version

Without leakage bore, this design is suitable down to - 0.9 bar(g).

#### Low temperature version

Suitable for minimum medium temperatures down to - 40 °C

#### Version for oxygen

Non-metallic wetted materials are tested for suitability with oxygen and suitable for operating pressures up to 25 bar(g) and medium temperatures up to 60 °C.

## 7. Product accessories

Control head	
Type 8691 ▶ Actuator size Ø 70/90/130 mm	<p><b>Description</b></p>  <p>The control heads, Type 8691 and 8695, are optimized for integrated mounting on process valves of the 21XX series. The valve position is detected without contact via an analog sensor element, which automatically detects and stores the valve end positions during commissioning using the Teach-In function. The integrated pilot valve controls single or double-acting actuators. The switching status of the valve is indicated by coloured high-performance LEDs.</p> <p><b>Features</b></p> <ul style="list-style-type: none"> <li>• Status indication via coloured high-power LEDs</li> <li>• Non-wearing inductive position sensor</li> <li>• Pilot valve with manual override</li> <li>• Teach-In function for automatic recognition of the valve end positions</li> <li>• Hygienic stainless steel design</li> <li>• Easy to clean chemical resistant housing according to IP65/67, 4X rating</li> <li>• AS-Interface, IO-Link, Burkert system bus (büS)</li> </ul> <p><b>Customer benefits</b></p> <ul style="list-style-type: none"> <li>• Simple and safe commissioning by means of Teach-In function</li> <li>• Easy process monitoring and fault detection through visible coloured high-power LEDs</li> <li>• High degree of system availability due to increased actuator service life by means of spring chamber ventilation</li> <li>• Minimal space requirement in the plant piping for more flexibility in plant design</li> </ul>
Type 8695 ▶ Actuator size Ø 50 mm	
Pneumatic Control unit/Position feedback	
Type 8690 ▶ Actuator size Ø 70/90/130 mm	<p><b>Description</b></p>  <p>The pneumatic control units, Type 8690 and 8697, are optimized for integrated mounting on process valves of the 21XX series. Mechanical or inductive limit switches detect the valve position. The integrated pilot valve controls single or double-acting (Type 8690) actuators.</p> <p><b>Features</b></p> <ul style="list-style-type: none"> <li>• Optical position indicator</li> <li>• Mechanical or inductive proximity switches for end position detection</li> <li>• Pilot valve with manual override</li> <li>• Compact design</li> <li>• Easy to clean, chemical resistant housing according to IP65/67, 4X rating</li> <li>• Optional intrinsically safe design according to ATEX/IECEx</li> </ul> <p><b>Customer benefits</b></p> <ul style="list-style-type: none"> <li>• Simple and safe commissioning using the Teach-In function (Type 8697)</li> <li>• Signal reliability due to the automatic adjustment of the limit position switches</li> <li>• Minimal space requirement in the plant piping for more flexibility in plant design</li> </ul>
Type 8697 ▶ Actuator size Ø 50 mm	

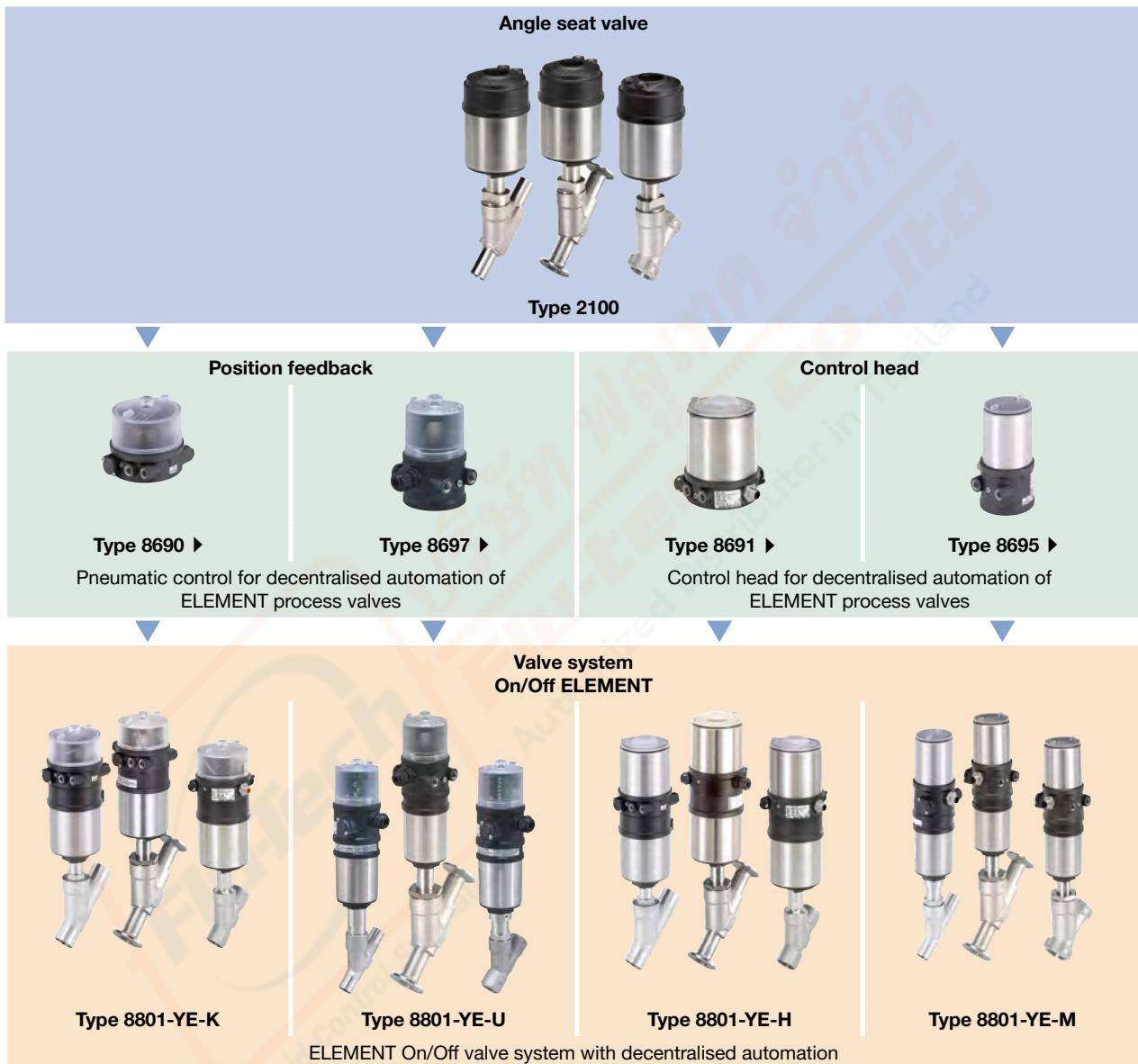
## 8. Networking and combination with other Burkert products

**Note:**

The angle seat valve Type 2100 can be combined with the position feedback Type 8690/8697 and the control head Type 8691/8695 to valve system On/Off ELEMENT Type 8801-YE.

**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.



## 9. Ordering information

### 9.1. Burkert eShop – Easy ordering and quick delivery



#### Burkert eShop – Easy ordering and fast delivery

You want to find your desired Burkert 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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### 9.2. Burkert product filter



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

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

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### 9.3. Ordering chart threaded connection

Valves with flow direction below seat

Control function	Nominal diameter	Threaded port connection	Actuator size Ø	Pilot pressure min.	Operating pressure	Article no.	Article no. ATEX II 2GD certified (mechanical)
	DN	[inch]	[mm]	[bar]	[bar]		
<b>CF: A, see control functions<sup>1.)</sup></b>	15	G 1/2"	50(D)	5.2	25	213619 ☰	259510 ☰
		G 1/2"	70(M)	5.0	25	213620 ☰	259511 ☰
	20	G 3/4"	50(D)	5.2	16	227616 ☰	259513 ☰
		G 3/4"	70(M)	5.0	25	213621 ☰	259515 ☰
	25	G 1"	50(D)	5.2	9	227617 ☰	259516 ☰
		G 1"	70(M)	5.0	16	213622 ☰	259517 ☰
	32	G 1 1/4"	70(M)	5.0	8.5	213623 ☰	259519 ☰
		G 1 1/4"	90(N)	5.0	25	213624 ☰	259521 ☰
	40	G 1 1/2"	70(M)	5.0	6	213625 ☰	259523 ☰
		G 1 1/2"	90(N)	5.0	16	213627 ☰	259524 ☰
<b>CF: B, see control functions<sup>1.)</sup></b>	50	G 2"	90(N)	5.0	10	175108 ☰	259525 ☰
		G 2"	130(P)	5.0	25(20 <sup>3.)</sup> )	188610 ☰	259526 ☰
	65	G 2 1/2"	90(N)	5.0	5	239456 ☰	259527 ☰
		G 2 1/2"	130(P)	5.6	16(15 <sup>3.)</sup> )	239472 ☰	259530 ☰
	15	G 1/2"	50(D)	See diagram <sup>2.)</sup>	25	213637 ☰	259531 ☰
		G 1/2"	70(M)		25	213638 ☰	259532 ☰
	20	G 3/4"	50(D)		25	213639 ☰	259533 ☰
		G 3/4"	70(M)		25	213640 ☰	259535 ☰
	25	G 1"	70(M)		25	213641 ☰	259537 ☰
	32	G 1 1/4"	70(M)		25	213642 ☰	259538 ☰
	40	G 1 1/2"	70(M)		25	213643 ☰	259539 ☰
	50	G 2"	70(M)		16	175123 ☰	259540 ☰
	65	G 2 1/2"	90(N)		14	239464 ☰	259565 ☰
		G 2 1/2"	130(P)		16(15 <sup>3.)</sup> )	239479 ☰	259566 ☰

1.) Further information in chapter "2. Circuit functions" on page 4

2.) See diagram in chapter "Pilot pressure diagram with flow direction below seat (Control function B)" on page 13

3.) According to pressure equipment directive 2014/68/EU for compressible fluids of group 1 (dangerous gases and vapours according to article 4, paragraph (1), c), i), first indent)

Control function	Nominal diameter	Threaded port connection	Actuator size Ø	Pilot pressure min.	Operating pressure	Article no.
		[inch]	[mm]	[bar]	[bar]	
<b>CF: A, see control functions<sup>1.)</sup></b>	15	NPT 1/2"	50(D)	5.2	25	213644 ☰
		NPT 1/2"	70(M)	5.0	25	213645 ☰
	20	NPT 3/4"	50(D)	5.2	16	227618 ☰
		NPT 3/4"	70(M)	5.0	25	213646 ☰
	25	NPT 1"	50(D)	5.2	9	227619 ☰
		NPT 1"	70(M)	5.0	16	213647 ☰
	32	NPT 1 1/4"	70(M)	5.0	8.5	213648 ☰
		NPT 1 1/4"	90(N)	5.0	25	213649 ☰
	40	NPT 1 1/2"	70(M)	5.0	6	213650 ☰
		NPT 1 1/2"	90(N)	5.0	16	213651 ☰
	50	NPT 2"	90(N)	5.0	10	188641 ☰
		NPT 2"	130(P)	5.0	25(20 <sup>3.)</sup> )	188642 ☰
	65	NPT 2 1/2"	90(N)	5.0	5	239457 ☰
		NPT 2 1/2"	130(P)	5.6	16(15 <sup>3.)</sup> )	239473 ☰
<b>CF: B, see control functions<sup>1.)</sup></b>	15	NPT 1/2"	50(D)	See diagram <sup>2.)</sup>	25	213661 ☰
		NPT 1/2"	70(M)		25	213662 ☰
	20	NPT 3/4"	50(D)		25	213663 ☰
		NPT 3/4"	70(M)		25	213664 ☰
	25	NPT 1"	70(M)		25	213665 ☰
		NPT 1 1/4"	70(M)		25	213666 ☰
	32	NPT 1 1/2"	70(M)		25	213667 ☰
		NPT 2"	70(M)		16	188656 ☰
	50	NPT 2 1/2"	90(N)		14	239465 ☰
		NPT 2 1/2"	130(P)		16(15 <sup>3.)</sup> )	239480 ☰

1.) Further information in chapter "2. Circuit functions" on page 4

2.) See diagram in chapter "Pilot pressure diagram with flow direction below seat (Control function B)" on page 13

3.) According to pressure equipment directive 2014/68/EU for compressible fluids of group 1 (dangerous gases and vapours according to article 4, paragraph (1), c, i), first indent)

Control function	Nominal diameter	Threaded port connection	Actuator size Ø	Pilot pressure min.	Operating pressure	Article no.
		[inch]	[mm]	[bar]	[bar]	
<b>CF: A, see control functions<sup>1)</sup></b>	15	RC 1/2"	50(D)	5.2	25	213668 ☰
		RC 1/2"	70(M)	5.0	25	213669 ☰
	20	RC 3/4"	50(D)	5.2	16	227621 ☰
		RC 3/4"	70(M)	5.0	25	213670 ☰
	25	RC 1"	50(D)	5.2	9	227622 ☰
		RC 1"	70(M)	5.0	16	213671 ☰
	32	RC 1 1/4"	70(M)	5.0	8.5	213672 ☰
		RC 1 1/4"	90(N)	5.0	25	213673 ☰
	40	RC 1 1/2"	70(M)	5.0	6	213674 ☰
		RC 1 1/2"	90(N)	5.0	16	213675 ☰
	50	RC 2"	90(N)	5.0	10	188664 ☰
		RC 2"	130(P)	5.0	25(20 <sup>3)</sup> )	188665 ☰
	65	RC 2 1/2"	90(N)	5.0	5	239458 ☰
		RC 2 1/2"	130(P)	5.6	16(15 <sup>3)</sup> )	239474 ☰
<b>CF: B, see control functions<sup>1)</sup></b>	15	RC 1/2"	50(D)	See diagram <sup>2)</sup>	25	213685 ☰
		RC 1/2"	70(M)		25	213686 ☰
	20	RC 3/4"	50(D)		25	213687 ☰
		RC 3/4"	70(M)		25	213688 ☰
	25	RC 1"	70(M)		25	213689 ☰
		RC 1 1/4"	70(M)		25	213690 ☰
	32	RC 1 1/2"	70(M)		25	213691 ☰
		RC 2"	70(M)		16	188679 ☰
	50	RC 2 1/2"	90(N)		14	239466 ☰
		RC 2 1/2"	130(P)		16(15 <sup>3)</sup> )	239481 ☰

1.) Further information in chapter "2. Circuit functions" on page 4

2.) See diagram in chapter "Pilot pressure diagram with flow direction below seat (Control function B)" on page 13

3.) According to pressure equipment directive 2014/68/EU for compressible fluids of group 1 (dangerous gases and vapours according to article 4, paragraph (1), c, i), first indent)

#### Further versions on request

	<b>Approval</b> Food processing, drinking water, oxygen, fuel gases, explosion protection		<b>Pressure</b> Other versions for operating pressures up to 25 bar(g) Vacuum version down to -0.9 bar(g)
	<b>Material</b> Seal: NBR, FKM, EPDM		<b>Temperature</b> High temperature version up to 230 °C Hot water version up to 200 °C Low temperature version down to -40 °C
	<b>Process connection</b> Clamp connection, welded connection		

## Valves with flow direction above seat

Control function	Nominal diameter	Threaded port connection	Actuator size Ø	Pilot pressure min.	Operating pressure	Article no.	Article no. ATEX II 2GD certified (mechanical)
		[inch]	[mm]	[bar]	[bar]		
<b>CF: A, see control functions<sup>1.)</sup></b>	15	G 1/2"	50(D)	See diagram <sup>2.)</sup>	16	213628 ☰	259567 ☰
		G 1/2"	70(M)		16	213629 ☰	259568 ☰
	20	G 3/4"	50(D)		16	213630 ☰	259569 ☰
		G 3/4"	70(M)		16	213631 ☰	259571 ☰
	25	G 1"	50(D)		16	213632 ☰	259573 ☰
		G 1"	70(M)		16	213633 ☰	259575 ☰
	32	G 1 1/4"	70(M)		16	213634 ☰	259576 ☰
	40	G 1 1/2"	70(M)		16	213635 ☰	259577 ☰
		G 1 1/2"	90(N)		16	213636 ☰	259578 ☰
	50	G 2"	70(M)		12	175115 ☰	259579 ☰
		G 2"	90(N)		16	175116 ☰	259580 ☰

1.) Further information in chapter "2. Circuit functions" on page 4

2.) See diagram in chapter "Pilot pressure diagram with flow direction above seat (Control function A)" on page 14

Control function	Nominal diameter	Threaded port connection	Actuator size Ø	Pilot pressure min.	Operating pressure	Article no.
		[inch]	[mm]	[bar]	[bar]	
<b>CF: A, see control functions<sup>1.)</sup></b>	15	NPT 1/2"	50(D)	See diagram <sup>2.)</sup>	16	213652 ☰
		NPT 1/2"	70(M)		16	213653 ☰
	20	NPT 3/4"	50(D)		16	213654 ☰
		NPT 3/4"	70(M)		16	213655 ☰
	25	NPT 1"	50(D)		16	213656 ☰
		NPT 1"	70(M)		16	213657 ☰
	32	NPT 1 1/4"	70(M)		16	213658 ☰
	40	NPT 1 1/2"	70(M)		16	213659 ☰
	50	NPT 2"	70(M)		12	188649 ☰

1.) Further information in chapter "2. Circuit functions" on page 4

2.) See diagram in chapter "Pilot pressure diagram with flow direction above seat (Control function A)" on page 14

Control function	Nominal diameter	Threaded port connection	Actuator size Ø	Pilot pressure min.	Operating pressure	Article no.
		[inch]	[mm]	[bar]	[bar]	
<b>CF: A, see control functions<sup>1.)</sup></b>	15	RC 1/2"	50(D)	See diagram <sup>2.)</sup>	16	213676 ☰
		RC 1/2"	70(M)		16	213677 ☰
	20	RC 3/4"	50(D)		16	213678 ☰
		RC 3/4"	70(M)		16	213679 ☰
	25	RC 1"	50(D)		16	213680 ☰
		RC 1"	70(M)		16	213681 ☰
	32	RC 1 1/4"	70(M)		16	213682 ☰
	40	RC 1 1/2"	70(M)		16	213683 ☰
	50	RC 2"	70(M)		12	188672 ☰

1.) Further information in chapter "2. Circuit functions" on page 4

2.) See diagram in chapter "Pilot pressure diagram with flow direction above seat (Control function A)" on page 14

#### 9.4. Ordering chart welded connection

Valves with flow direction below seat

Control function	Nominal diameter	Port connection pipe Ø	Actuator size Ø		Pilot pressure min.	Operating pressure [bar]	Article no.
			DN	[mm]			
<b>ASME BPE</b>							
<b>CF: A, see control functions<sup>1.)</sup></b>	15	12.7 × 1.65	50(D)	5.2	25	187077	187077
		12.7 × 1.65	70(M)	5.0	25	188726	188726
	20	19.05 × 1.65	50(D)	5.2	16	227607	227607
		19.05 × 1.65	70(M)	5.0	25	188727	188727
	25	25.4 × 1.65	50(D)	5.2	9	227608	227608
		25.4 × 1.65	70(M)	5.0	16	188728	188728
	40	38.1 × 1.65	70(M)	5.0	6	188729	188729
		38.1 × 1.65	90(N)	5.0	16	188730	188730
	50	50.8 × 1.65	90(N)	5.0	10	188731	188731
		50.8 × 1.65	130(P)	5.0	25(20 <sup>3.)</sup> )	188732	188732
<b>CF: B, see control functions<sup>1.)</sup></b>	65	63.5 × 1.65	90(N)	5.0	5	239461	239461
		63.5 × 1.65	130(P)	5.6	16(15 <sup>3.)</sup> )	239478	239478
	15	12.7 × 1.65	50(D)	See diagram <sup>2.)</sup>	25	187082	187082
		12.7 × 1.65	70(M)		25	188740	188740
	20	19.05 × 1.65	50(D)		25	187083	187083
		19.05 × 1.65	70(M)		25	188741	188741
	25	25.4 × 1.65	70(M)		25	188742	188742
	40	38.1 × 1.65	70(M)		25	188781	188781
	50	50.8 × 1.65	70(M)		16	188744	188744
	65	63.5 × 1.65	90(N)		14	239469	239469
<b>SMS 3008</b>		63.5 × 1.65	130(P)		16(15 <sup>3.)</sup> )	239484	239484
<b>CF: A, see control functions<sup>1.)</sup></b>	15	12 × 1.0	50(D)	5.2	25	187084	187084
		12 × 1.0	70(M)	5.0	25	188745	188745
	20	18 × 1.0	50(D)	5.2	16	227609	227609
		18 × 1.0	70(M)	5.0	25	188746	188746
	25	25 × 1.2	50(D)	5.2	9	227610	227610
		25 × 1.2	70(M)	5.0	16	188747	188747
	40	38 × 1.2	70(M)	5.0	6	188748	188748
		38 × 1.2	90(N)	5.0	16	188749	188749
	50	51 × 1.2	90(N)	5.0	10	188750	188750
		51 × 1.2	130(P)	5.0	25(20 <sup>3.)</sup> )	188751	188751
<b>CF: B, see control functions<sup>1.)</sup></b>	65	63.5 × 1.65	90(N)	5.0	5	239462	239462
		63.5 × 1.65	130(P)	5.6	16(15 <sup>3.)</sup> )	239477	239477
	15	12 × 1.0	50(D)	See diagram <sup>2.)</sup>	25	187089	187089
		12 × 1.0	70(M)		25	188759	188759
	20	18 × 1.0	50(D)		25	187090	187090
		18 × 1.0	70(M)		25	188760	188760
	25	25 × 1.2	70(M)		25	188761	188761
	40	38 × 1.2	70(M)		25	188762	188762
	50	51 × 1.2	70(M)		16	188763	188763
	65	63.5 × 1.65	90(N)		14	239470	239470
		63.5 × 1.65	130(P)		16(15 <sup>3.)</sup> )	239485	239485

1.) Further information in chapter "2. Circuit functions" on page 4

2.) See diagram in chapter "Pilot pressure diagram with flow direction below seat (Control function B)" on page 13

3.) According to pressure equipment directive 2014/68/EU for compressible fluids of group 1 (dangerous gases and vapours according to article 4, paragraph (1), c, i), first indent)



## Valves with flow direction above seat

Control function	Nominal diameter	Port connection pipe Ø	Actuator size Ø	Pilot pressure min.	Operating pressure	Article no.
	DN	[mm]	[mm]	[bar]	[bar]	
<b>EN ISO 1127/ISO 4200</b>						
<b>CF: A, see control functions<sup>1.)</sup></b>	15	21.3 × 1.6	50(D)	See diagram <sup>2.)</sup>	16	187066 Ⓜ
	20	26.9 × 1.6	50(D)		16	187067 Ⓜ
	25	33.7 × 2	50(D)		16	187068 Ⓜ
	32	42.4 × 2	70(M)		16	188692 Ⓜ
	40	48.3 × 2	70(M)		16	188693 Ⓜ
	50	60.3 × 2.0	70(M)		12	274663 Ⓜ
<b>DIN 11850 R2</b>						
<b>CF: A, see control functions<sup>1.)</sup></b>	15	19 × 1.5	50(D)	See diagram <sup>2.)</sup>	16	187072 Ⓜ
	20	23 × 1.5	50(D)		16	187073 Ⓜ
	25	29 × 1.5	50(D)		16	187074 Ⓜ
	32	35 × 1.5	70(M)		16	188715 Ⓜ
	40	41 × 1.5	70(M)		16	188716 Ⓜ
	50	53 × 1.5	70(M)		12	188718 Ⓜ
<b>ASME BPE</b>						
<b>CF: A, see control functions<sup>1.)</sup></b>	15	12.7 × 1.65	50(D)	See diagram <sup>2.)</sup>	16	187078 Ⓜ
	20	19.05 × 1.65	50(D)		16	187079 Ⓜ
	25	25.4 × 1.65	50(D)		16	187080 Ⓜ
	40	38.1 × 1.65	70(M)		16	188736 Ⓜ
	50	50.8 × 1.65	70(M)		12	188738 Ⓜ
<b>SMS 3008</b>						
<b>CF: A, see control functions<sup>1.)</sup></b>	15	12 × 1.0	50(D)	See diagram <sup>2.)</sup>	16	187085 Ⓜ
	20	18 × 1.0	50(D)		16	187086 Ⓜ
	25	25 × 1.2	50(D)		16	187087 Ⓜ
	40	38 × 1.2	70(M)		16	188755 Ⓜ
	50	51 × 1.2	70(M)		12	188757 Ⓜ

1.) Further information in chapter "2. Circuit functions" on page 4

2.) See diagram in chapter "Pilot pressure diagram with flow direction above seat (Control function A)" on page 14

## 9.5. Ordering chart clamp connection

Valves with flow direction below seat

Control function	Nominal diameter	Port connection external clamp Ø	Actuator size Ø	Pilot pressure min.	Operating pressure	Article no.
<b>DIN 32676 B (pipe ISO 4200)</b>						
<b>CF: A, see control functions<sup>1.)</sup></b>	15	34.0	50(D)	5.2	25	187097 ☰
		34.0	70(M)	5.0	25	188783 ☰
	20	50.5	50(D)	5.2	16	209437 ☰
		50.5	70(M)	5.0	25	188784 ☰
	25	50.0	50(D)	5.2	9	227613 ☰
		50.5	70(M)	5.0	16	188785 ☰
	32	50.5	70(M)	5.0	8.5	188786 ☰
		50.5	90(N)	5.0	25	188787 ☰
	40	64.0	70(M)	5.0	6	188788 ☰
		64.0	90(N)	5.0	16	188789 ☰
<b>CF: B, see control functions<sup>1.)</sup></b>	50	77.5	90(N)	5.0	10	188790 ☰
		77.5	130(P)	5.0	25(20 <sup>3.)</sup> )	188791 ☰
	15	34.0	50(D)	See diagram <sup>2.)</sup>	25	187101 ☰
		34.0	70(M)		25	188800 ☰
	20	50.5	50(D)		25	187102 ☰
		50.5	70(M)		25	188801 ☰
	25	50.5	70(M)		25	188802 ☰
	32	50.5	70(M)		25	188803 ☰
	40	64.0	70(M)		25	188804 ☰
	50	77.5	70(M)		16	188805 ☰
<b>ASME BPE</b>						
<b>CF: A, see control functions<sup>1.)</sup></b>	15	25.0	50(D)	5.2	25	187103 ☰
		25.0	70(M)	5.0	25	188806 ☰
	20	25.5	50(D)	5.2	16	227614 ☰
		25.5	70(M)	5.0	25	188807 ☰
	25	50.5	50(D)	5.2	9	227615 ☰
		50.5	70(M)	5.0	16	188808 ☰
	40	50.5	70(M)	5.0	6	188809 ☰
		50.5	90(N)	5.0	16	188810 ☰
	50	64.0	90(N)	5.0	10	188811 ☰
		64.0	130(P)	5.0	25(20 <sup>3.)</sup> )	188812 ☰
<b>CF: B, see control functions<sup>1.)</sup></b>	15	25.0	50(D)	See diagram <sup>2.)</sup>	25	187107 ☰
		25.0	70(M)		25	188820 ☰
	20	25.0	50(D)		25	187108 ☰
		50.5	70(M)		25	188821 ☰
	25	50.5	70(M)		25	188822 ☰
	40	50.5	70(M)		25	188823 ☰
	50	64.0	70(M)		16	188824 ☰

1.) Further information in chapter "2. Circuit functions" on page 4

2.) See diagram in chapter "Pilot pressure diagram with flow direction below seat (Control function B)" on page 13



**Further versions on request**

	<b>Approval</b> Food processing, drinking water, oxygen, fuel gases, explosion protection		<b>Pressure</b> Other versions for operating pressures up to 25 bar(g) Vacuum version down to -0.9 bar(g)
	<b>Material</b> Seal: NBR, FKM, EPDM		<b>Temperature</b> High temperature version up to 230 °C Hot water version up to 200 °C Low temperature version down to -40 °C
	<b>Process connection</b> Clamp connection, welded connection		

**Valves with flow direction above seat**

Control function	Nominal diameter	Port connection external clamp Ø	Actuator size Ø	Pilot pressure min.	Operating pressure	Article no.		
				[DN]	[mm]	[mm]	[bar]	[bar]
<b>DIN 32676 B (pipe ISO 4200)</b>								
<b>CF: A, see control functions<sup>1.)</sup></b>	15	34.0	50(D)	See diagram <sup>2.)</sup>	16	187098		
	20	50.5	50(D)		16	187099		
	25	50.5	50(D)		16	187100		
	32	50.5	70(M)		16	188795		
	40	64.0	70(M)		16	188796		
	50	77.5	70(M)		12	188798		
<b>ASME BPE</b>								
<b>CF: A, see control functions<sup>1.)</sup></b>	15	25.0	50(D)	See diagram <sup>2.)</sup>	16	187104		
	20	25.0	50(D)		16	187105		
	25	50.5	50(D)		16	187106		
	40	50.5	70(M)		16	188816		
	50	64.0	70(M)		12	188818		

1.) Further information in chapter "2. Circuit functions" on page 4

2.) See diagram in chapter "Pilot pressure diagram with flow direction above seat (Control function A)" on page 14

## Product Enquiry Form - Pneumatic Shut-off Valves ELEMENT

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@bürkert.com](mailto:info@bürkert.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.

<b>Personal Information</b>			
<b>Company</b>		<b>Contact person</b>	
<b>Customer no.</b>		<b>Department</b>	
<b>Street</b>		<b>Postcode / Town</b>	
<b>Telephone no.</b>		<b>E-mail</b>	

<b>Delivery</b>		
<b>Quantity</b>	Required delivery date	

<b>Operating data</b>				
<b>Function</b> (Function of the control valve in the process / process description)				
<b>Pipeline</b>	DN	PN		
<b>Operating medium</b>				
<b>Type of medium</b>	Fluid	Steam	Gas	
<b>Operating pressure</b>	Unit			
<b>Medium temperature</b>	°C	/	°F	
<b>Ambient temperature</b>	°C	/	°F	

<b>Valve body</b>				
<b>Construction</b>	Angle seat valve <sup>1.)</sup>		Globe valve	
<b>Actuator material</b>	Stainless steel/PPS		Stainless steel <sup>1.)</sup>	PPS PA
<b>Housing material</b>	Stainless steel		Gunmetal <sup>1.)</sup>	
<b>Seat seal</b>	PTFE EPDM	NBR Other	PEEK FKM	
<b>DN / Nominal pressure</b>	DN	PN		
<b>Flow coefficient</b>	K <sub>v</sub>	m <sup>3</sup> /h	C <sub>v</sub>	GPM(US)
<b>Connection</b>	<b>Flange<sup>1.)</sup></b>	DIN EN 1092-1		ANSI B16.5 JIS 10K
	<b>Thread</b>	G		NPT RC
	<b>Weld<sup>1.)</sup></b>	DIN EN ISO 1127 / ISO 4200		DIN 11850 2 / DIN 11866 A ASME BPE
	<b>Clamp<sup>1.)</sup></b>	ASME BPE		DIN 32676 A (tube ISO 4200) DIN 32676 B (tube DIN 11850)
<b>Other</b>				

1.) Not available for Type 2006 and 2106.

<b>Valve data</b>			
<b>Circuit Function</b>	A: Normally closed		I: Double-acting <sup>2.)</sup>
<b>Control pressure</b>	Min.		Max.

2.) Not available for Type 2006 and 2106.

Visit this product area on the website ▶

1 | 2

**Approvals / Conformities**

- For use with food (conform to EG regulation no. 1935/2004)
- For use with food (conform to FDA)
- Explosion protection in accordance with ATEX II 2GD mech. / IECEx
- European Gas Appliances Directive (EU) 2016/426, DVGW DIN EN 161 and DIN EN 16678
- Suitable for drinking water<sup>3.)</sup>
- Certificate for the fulfilment of the order EN-ISO 10204 2.1 (Article no. 440788)
- Test report EN-ISO 10204 2.2 (Article no. 803722)
- Conformity certification for raw material EN-ISO 10204 3.1 (included)

3.) For use with drinking water for medium temperatures up to 85 °C in accordance with the Drinking Water Ordinance §17 and the assessment principles of the Federal Environment Agency.

**Additional Requirements / Comment**

## Control heads / pneumatic control for on/off process valves of the ELEMENT series

For actuator size ø70/ø90/ø130 mm	For actuator size ø50 mm
<b>Control head Type 8691 ▶</b>	<b>Control head Type 8695 ▶</b>
	
<ul style="list-style-type: none"> <li>Inductive position sensor with automatic Teach function</li> <li>Coloured high power LEDs</li> <li>With/without pilot valve for single or double-acting actuators</li> <li>Fieldbus communication</li> <li>Hygienic stainless steel design</li> </ul>	
<b>Pneumatic function</b>	<b>Electrical connection</b>
Single-acting	Double-acting
Without pilot valve	Cable gland
<b>Communication</b>	<b>M12 connector</b>
AS-Interface	IO-Link
Without	Bürkert Systembus (büS) <sup>1.)</sup>
	<b>Approvals</b>
	ATEX cat. 3GD, IECEx
	Without

1.) Based on CANopen

For actuator size ø70/ø90/ø130 mm	For actuator size ø50 mm
<b>Pneumatic control unit / feedback Type 8690 ▶</b>	<b>Pneumatic control unit / feedback Type 8697 ▶</b>
	
<ul style="list-style-type: none"> <li>Visual status indicator</li> <li>Micro- or proximity switches for end position feedback</li> <li>With/without pilot valve for single- or double-acting actuators</li> <li>Optional intrinsically safe version acc. to ATEX / IECEx</li> </ul>	
<b>Pneumatic function</b>	<b>Electrical connection</b>
Single-acting	Double-acting (Type 8690)
Without pilot valve	Cable gland
<b>Number of position feedback switches</b>	<b>M12 connector</b>
1x	
2x	
	<b>Approvals</b>
	ATEX cat. 3GD, IECEx
	Without
<b>Position feedback switch</b>	<b>Inductive switch 3-wire PNP</b>
Micro-switch 24 V DC	Micro-switch 50...225 V DC/AC (Type 8690)
Inductive switch 2-wire NAMUR	Inductive switch 2-wire 24 V DC
	Without