



### 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> ▶<br>Pneumatic control unit for decentralised automation of process valves ELEMENT |
|  | <b>Type 8691</b> ▶<br>Control head for decentralised automation of ELEMENT process valves           |
|  | <b>Type 8695</b> ▶<br>Control head for decentralised automation of ELEMENT process valves           |
|  | <b>Type 8697</b> ▶<br>Pneumatic control unit for decentralised automation of process valves ELEMENT |
|  | <b>Type 8801</b> ▶<br>ELEMENT on/off valve systems with decentralised automation – overview         |
|  | <b>Type 8840</b> ▶<br>Modular process valve cluster – distributor and collector                     |

#### 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

Product properties	
Dimensions	Further information can be found in chapter "5. Dimensions" on page 9.
Material	Further information can be found in chapter "4. Materials" on page 8.
Design	Angle seat valve
Nominal diameter (port connection)	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)
Performance data	
Operating pressure	0 bar(g)...25 bar(g), vacuum up to -0.9 bar(g) (option) (see "6.2. Operating limits" on page 18)
Nominal pressure	PN 25 (DIN EN 1333), Class 150 (DIN EN 1759)
Pilot pressure	2.5 bar(g)...10 bar(g) (see "6. Performance specifications" on page 14)
Seat leakage	Leakage rate A (according to DIN EN 12266 - 1), seat seal PTFE and PEEK, test medium air
K <sub>v</sub> value	4.8 m³/h...+140 m³/h (see "6.1. Fluidic data" on page 14)
Medium data	
Medium	Steam, water, neutral gases, alcohols, oils, fuels, hydraulic fluids, salt solutions, alkalis, organic solvents, oxygen and fuel gases of families I, II and III in accordance with the Gas Appliances Regulation (EU) 2016/426
Medium temperature	-40 °C...+230 °C (see "6.2. Operating limits" on page 18)
Viscosity	Max. 600 mm²/s
Control medium	Air, neutral gases
Process/Port connection & communication	
Port connection	
Threaded connection	G (DIN ISO 228 - 1) NPT (ASME B1.20.1) RC (ISO 7 - 1)
Welded connection	DIN EN ISO 1127 / ISO 4200 / DIN 11866 series B DIN 11850 - 2 / DIN 11866 series A ASME BPE / DIN 11866 series C SMS 3008
Clamp connection	DIN 32676 series B (pipe: ISO 4200) DIN 32676 series A (pipe: DIN 11850 - 2) ASME BPE
Pilot air port	Push-in connector (external Ø 6 mm or ¼") or thread G ⅛" (on request)
Approvals and conformities	
Further information can be found in chapter "3. Approvals and conformities" on page 6.	
Material certificate	2.2, 3.1
Environment and installation	
Ambient temperature	-10 °C...+100 °C (see "6.2. Operating limits" on page 18)
Degree of protection	IP65/67
Installation position	As required, preferably with actuator in upright position

## 2. Control functions

**⚠ WARNING**  
**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..

Symbol	Description	
<b>Flow direction below seat for liquids and gases</b>		
	<b>Control function A (SF A)</b> Pneumatically operated 2/2-way on/off valve Flow direction below seat Normally closed by spring force	
	<b>Control function B (CF B)</b> Pneumatically operated 2/2-way on/off valve Flow direction above seat Normally opened by spring force	
<b>Flow direction above seat for steam and gases</b>		
	<b>Control function A (CF A)</b> Pneumatically operated 2/2-way on/off valve 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>Control function A (CF A)</b> Pneumatically operated 2/3-way position valve Flow direction below seat Normally closed by spring force	

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### 3. Approvals and conformities

#### 3.1. General notes

- The approvals and conformities listed below must be stated when making enquiries. This is the only way to ensure that the product complies with all required specifications.
- Not all available versions can be supplied with the below mentioned approvals or conformities.

#### 3.2. Conformity



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

- Pressure Equipment Directive 2014/68/EU
- Machinery Directive 2006/42/EG


#### 3.3. Standards

The applied standards which are used to demonstrate compliance with the EU Directives are listed in the EU-Type Examination Certificate and/or the EU Declaration of Conformity.

#### 3.4. Explosion protection


Approval	Description																								
 	<p><b>Optional: Explosion protection</b> As a category 2 device suitable for zone 1/21 and zone 2/22 (optional).</p> <p><b>ATEX:</b> EPS 18 ATEX 2 008 X II 2G Ex h IIC T4...T2 Gb II 2D Ex h IIIC T135 °C...T300 °C Db</p> <p><b>IECEX:</b> IECEX EPS 18.0007 X Ex h IIC T4...T2 Gb Ex h IIIC T135 °C...T300 °C Db</p> <table border="1"> <thead> <tr> <th>Temperature class</th> <th>T2</th> <th>T3</th> <th>T4</th> </tr> </thead> <tbody> <tr> <td>Permissible surface temperature</td> <td>+300 °C</td> <td>+200 °C</td> <td>+135 °C</td> </tr> <tr> <td>Ambient temperature</td> <td>-40...+80 °C</td> <td>-40...+80 °C</td> <td>-40...+80 °C</td> </tr> <tr> <td>Restrictions from the device</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Maximum medium temperature</td> <td>+230 °C</td> <td>+185 °C</td> <td>+125 °C</td> </tr> <tr> <td>Restrictions from the device</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Temperature class	T2	T3	T4	Permissible surface temperature	+300 °C	+200 °C	+135 °C	Ambient temperature	-40...+80 °C	-40...+80 °C	-40...+80 °C	Restrictions from the device				Maximum medium temperature	+230 °C	+185 °C	+125 °C	Restrictions from the device			
Temperature class	T2	T3	T4																						
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Maximum medium temperature	+230 °C	+185 °C	+125 °C																						
Restrictions from the device																									

#### 3.5. Drinking water

Conformity	Description
	<p><b>Suitable for use in drinking water applications</b> The materials comply with the assessment principles (UBA) for materials in contact with drinking water (TrinkwasserV).</p> <p><b>Stainless steel body</b> PF39: Suitable for products with medium temperature up to 85 °C (hot water)</p>

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### 3.6. Foods and beverages/Hygiene


Conformity	Description
FDA	<b>FDA – Code of Federal Regulations (valid for the variable code PL02)</b> All wetted materials are compliant with the Code of Federal Regulations published by the FDA (Food and Drug Administration, USA) according to the manufacturer's declaration.
	<b>EC Regulation 1935/2004 of the European Parliament and of the Council (valid for the variable code PL01, PL02)</b> All wetted materials are compliant with EC Regulation 1935/2004/EC according to the manufacturer's declaration.

### 3.7. Others

#### Oxygen

Conformity	Description
O <sub>2</sub>	<b>Optional: Suitability for oxygen (valid for the variable code NL02)</b> The products are suitable for use with gaseous oxygen, according to the manufacturer's declaration.

#### Fuel gases

Conformity	Description
	<b>Fuel gases (valid for the variable code PO19, PO20)</b> The products comply with: <ul style="list-style-type: none"> <li>• Regulation (EU) 2016/426 – Appliances burning gaseous fuels and</li> <li>• DVGW DIN EN 161 (Automatic shut-off valves for gas burners and gas appliances) and</li> <li>• DIN EN 16678, Class A or Class D (Safety and control devices for gas burners and gas burning appliances – Automatic shut-off valves for operating pressure of above 500 kPa up to and including 6 300 kPa)</li> </ul>

## 4. Materials

### 4.1. Bürkert resistApp



#### Bürkert resistApp – Chemical resistance chart

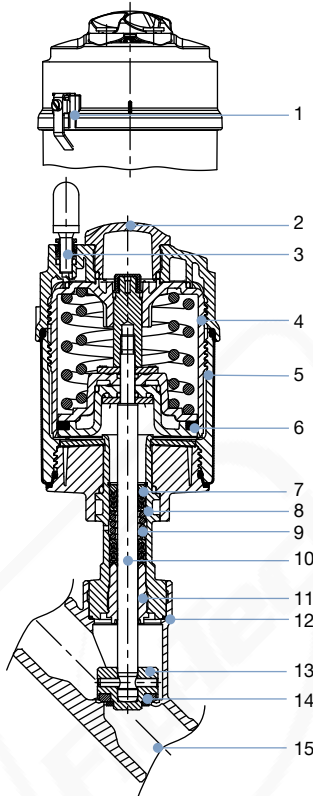
You want to ensure the reliability and durability of the materials in your individual application case? Verify your combination of media and materials on our website or in our resistApp.

[Start chemical resistance check](#)

### 4.2. Material specifications

**Note:**

The lubricants for packing gland and actuator are classified according to NSF H1.

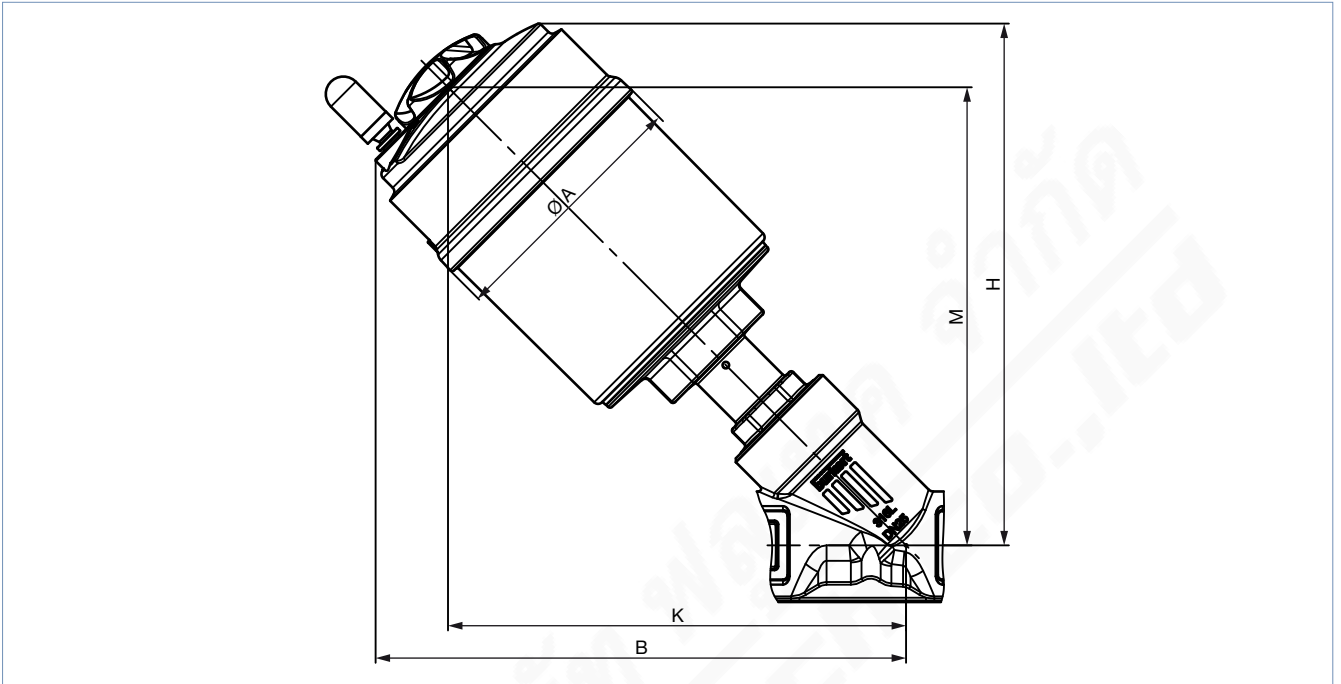


No.	Element	Material
1	Ground terminal	Stainless steel 1.4301/1.4305 only for ATEX version
2	Optical position indicator	Optical position indicator Polysulfone PSU
3	Pilot air ports	Push-in connector PP (Standard) On request: Thread G 1/8" Stainless steel 1.4305
4	Actuator	PPS
5	Cover	Stainless steel 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



Nominal diameter (port connection)		Actuator size	$\varnothing A$	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.) The dimensions for B, H, K and M are maximum dimensions and may be up to 6 mm less, depending on the connection orifice size and standard.

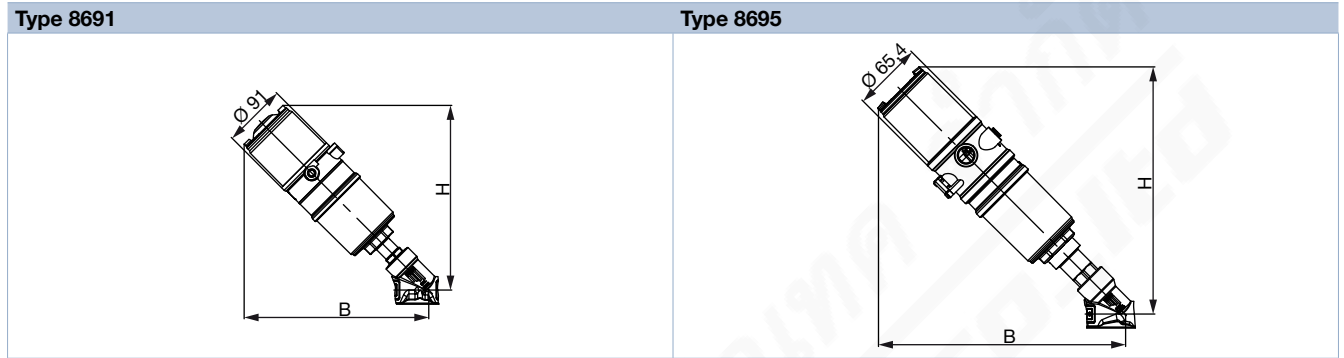
**Valve system On/Off ELEMENT**

**Actuator with control head and pneumatic controls/position feedback**

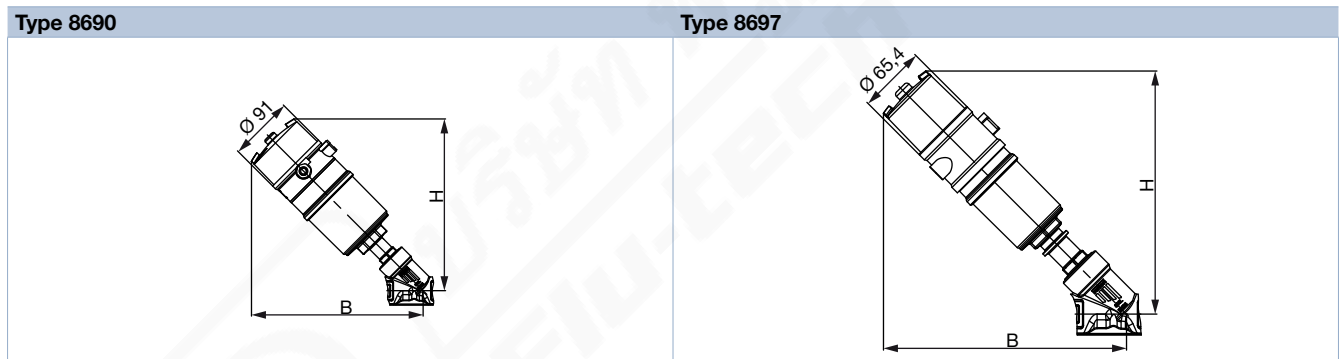
**Note:**

- Further information can be found in chapter “7. Product accessories” on page 20.
- Dimensions in mm

**Control head**



**Pneumatic control unit/Position feedback**

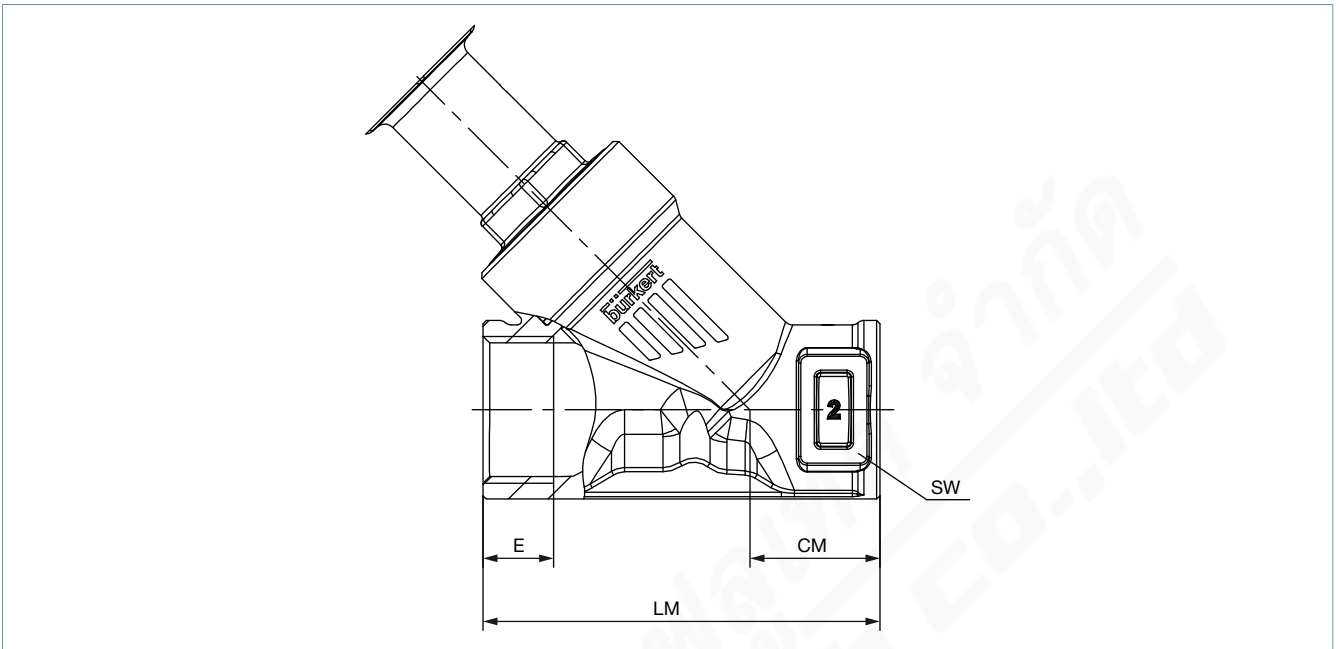


Nominal diameter (port connection)		Actuator size	B/H <sup>1.)</sup> with	
DN	NPS	[mm]	Type 8690 or Type 8697	Type 8691 or Type 8695
10	3/8	50 (D)	226	239
		70 (M)	232	256
15	1/2	50 (D)	226	239
		70 (M)	232	256
20	3/4	50 (D)	234	247
		70 (M)	240	264
25	1	50 (D)	236	249
		70 (M)	242	266
		90 (N)	276	303
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.) The dimensions for B, H, K and M are maximum dimensions and may be up to 6 mm less, depending on the connection orifice size and standard.

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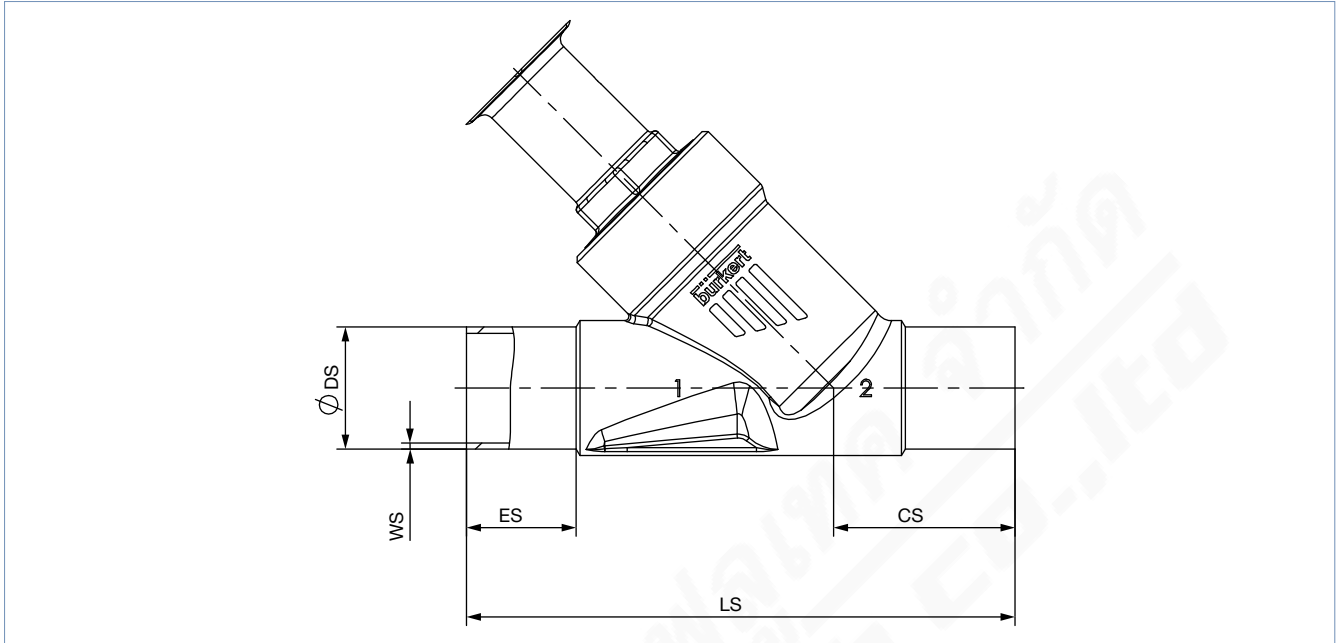
5.2. Body with threaded connection



Nominal diameter (port connection)		G (DIN ISO 228-1) NPT (ASME B1.20.1) RC (ISO 7-1)					
		E			CM	LM	SW
DN	NPS	G	NPT	RC			
15	½	14	13.7	13.2	24	65	27
20	¾	16	14.0	14.5	27	75	34
25	1	18	16.8	16.8	29.5	90	41
32	1¼	16	17.3	19.1	36	110	50
40	1½	18	17.3	19.1	35	120	55
50	2	24	17.6	23.4	45	150	70
65	2½	26	23.7	26.7	57	185	85
80	3	28	-	-	71	220	100

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5.3. Body with welded connection

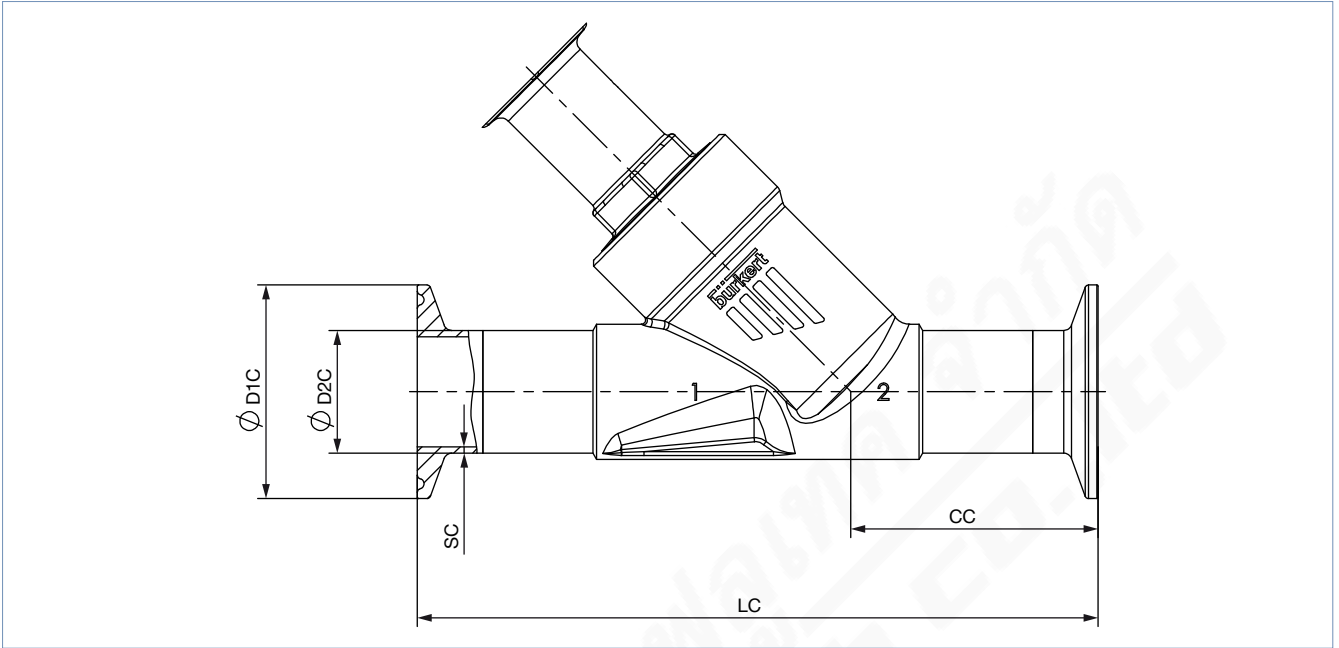


Nominal diameter (port connection)	DIN EN ISO 1127 / ISO 4200 / DIN 11866 series B					DIN 11850-2 / DIN 11866 series A				
	ES	CS	LS	Ø DS	WS	ES	CS	LS	Ø DS	WS
15	19	34	100	21.3	1.6	19	34	100	19	1.5
20	20	39	115	26.9	1.6	20	39	115	23	1.5
25	26	43	130	33.7	2.0	26	43	130	29	1.5
32	26	45	145	42.4	2.0	26	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 (port connection)	ASME BPE / DIN 11866 series C				
NPS	ES	CS	LS	Ø DS	WS
½	30	46	135	12.7	1.65
¾	30	52	145	19.05	1.65
1	30	51	152	25.4	1.65
1½	30	60	182	38.1	1.65
2	30	64	210	50.8	1.65
2½	26	56	230	63.5	1.65

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5.4. Body with clamp connection



Nominal diameter (port connection)	Clamp: DIN 32676 series B Pipe: DIN EN ISO 1127 / ISO 4200 / DIN 11866 series B					Clamp: DIN 32676 series A (DN 15 similar DIN 32676 B) Pipe: DIN 11850 - 2 / DIN 11866 series A				
	DN	LC	CC	Ø D1 C	Ø D2 C	SC	LC	CC	Ø D1 C	Ø D2 C
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 (port connection)	Clamp: ASME BPE Pipe: ASME BPE / DIN 11866 series C				
	NPS	LC	CC	Ø D1 C	Ø D2 C
½	130	49.0	25.0	12.7	1.65
¾	150	56.5	25.0	19.05	1.65
1	160	58.0	50.5	25.4	1.65
1½	200	69.0	50.5	38.1	1.65
2	230	77.5	64.0	50.8	1.65

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## 6. Performance specifications

### 6.1. Fluidic data

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

Note:

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

Nominal diameter (port connection)		Actuator size Ø	$K_v$ value water	Pilot pressure min. CF A	Operating pressure max.		
DN	NPS				CF A	CF B	CF B
					Seat seal		
					PTFE	PEEK	PTFE
DN	NPS	[mm]	[ $m^3/h$ ]	[bar(g)]	[bar(g)]	[bar(g)]	[bar(g)]
10	3/8	50 (D)	4.8	5.2	25	25	25
		70 (M)	4.8	5	25	25	25
15	1/2	50 (D)	5	5.2	25	25	25
		70 (M)	5	5	25	25	25
20	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 1/4	70 (M)	27	5	8.5	–	25
		90 (N)	28	5	25	19.5	25
		130 (P)	28	5	–	25	–
40	1 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.)</sup> )	23 (20 <sup>1.)</sup> )	25 (20 <sup>1.)</sup> )
65	2 1/2	90 (N)	85	5	5	–	14
		130 (P)	95	5.6	16 (15 <sup>1.)</sup> )	12.5	16 (15 <sup>1.)</sup> )
80	3	130 (P)	140	5.6	10	8	11

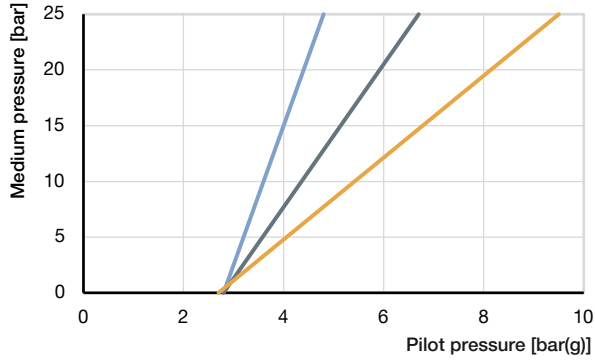
1.) According to pressure equipment directive 2014/68/EU for compressible fluids of group 1 (dangerous gases and vapours according to Article 4, paragraph (1), c), i), first indent)

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

**Actuator size Ø 50 mm**

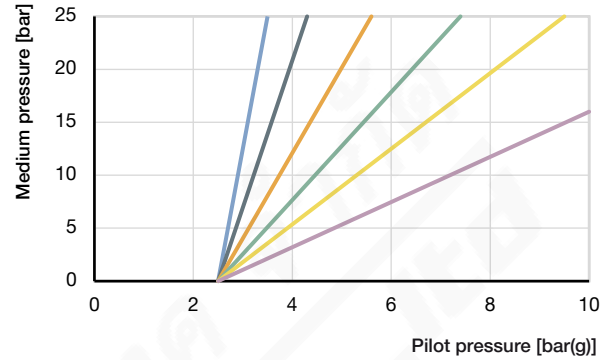
Maximum control pressure 10 bar(g)



Nominal diameter:  
 DN10/15 — DN25 —  
 DN20 —

**Actuator size Ø 70 mm**

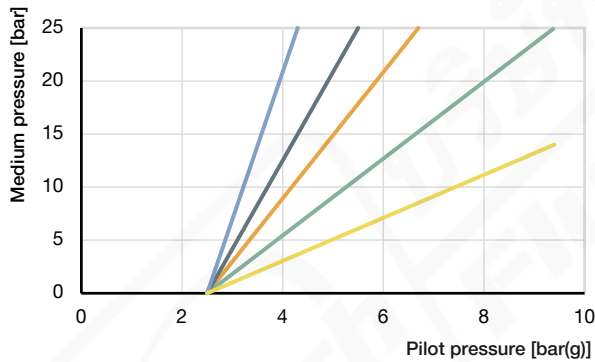
Maximum control pressure 10 bar(g)



Nominal diameter:  
 DN10/15 — DN25 — DN40 —  
 DN20 — DN32 — DN50 —

**Actuator size Ø 90 mm**

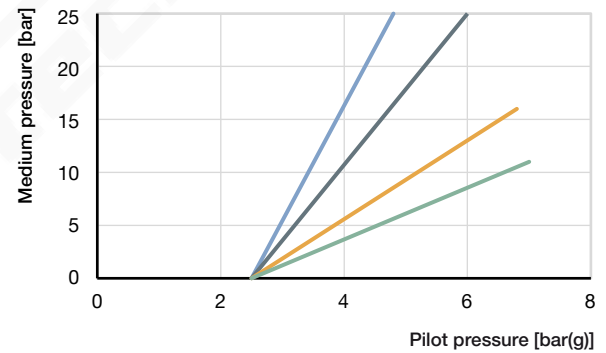
Maximum control pressure 10 bar(g)



Nominal diameter:  
 DN25 — DN40 — DN65 —  
 DN32 — DN50 —

**Actuator size Ø 130 mm**

Maximum control pressure 7 bar(g)



Nominal diameter:  
 DN40 — DN65 —  
 DN50 — DN80 —

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

**Note:**

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

**⚠ WARNING**  
**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.

Nominal diameter (port connection)	Actuator size Ø	$K_v$ value water	Operating pressure max. + 185 °C	
			CF A	PTFE
DN	[mm]	[m <sup>3</sup> /h]	[bar(g)]	
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	

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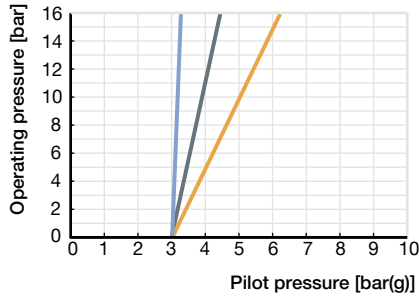
**Pilot pressure diagram with flow direction above seat (control function A)**

**Actuator size Ø 50 mm**

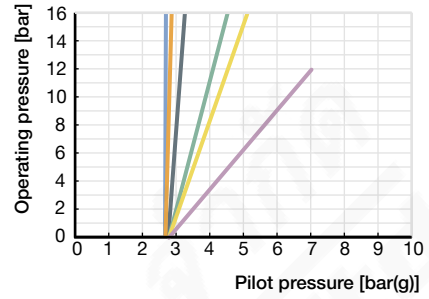
Maximum control pressure 10 bar(g)

**Actuator size Ø 70 mm**

Maximum control pressure 10 bar(g)



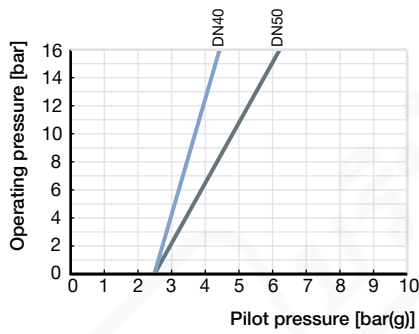
Nominal diameter:  
 DN15 — DN25  
 DN20 —



Nominal diameter:  
 DN15 — DN32  
 DN20 — DN40  
 DN25 — DN50

**Actuator size Ø 90 mm**

Maximum control pressure 10 bar(g)



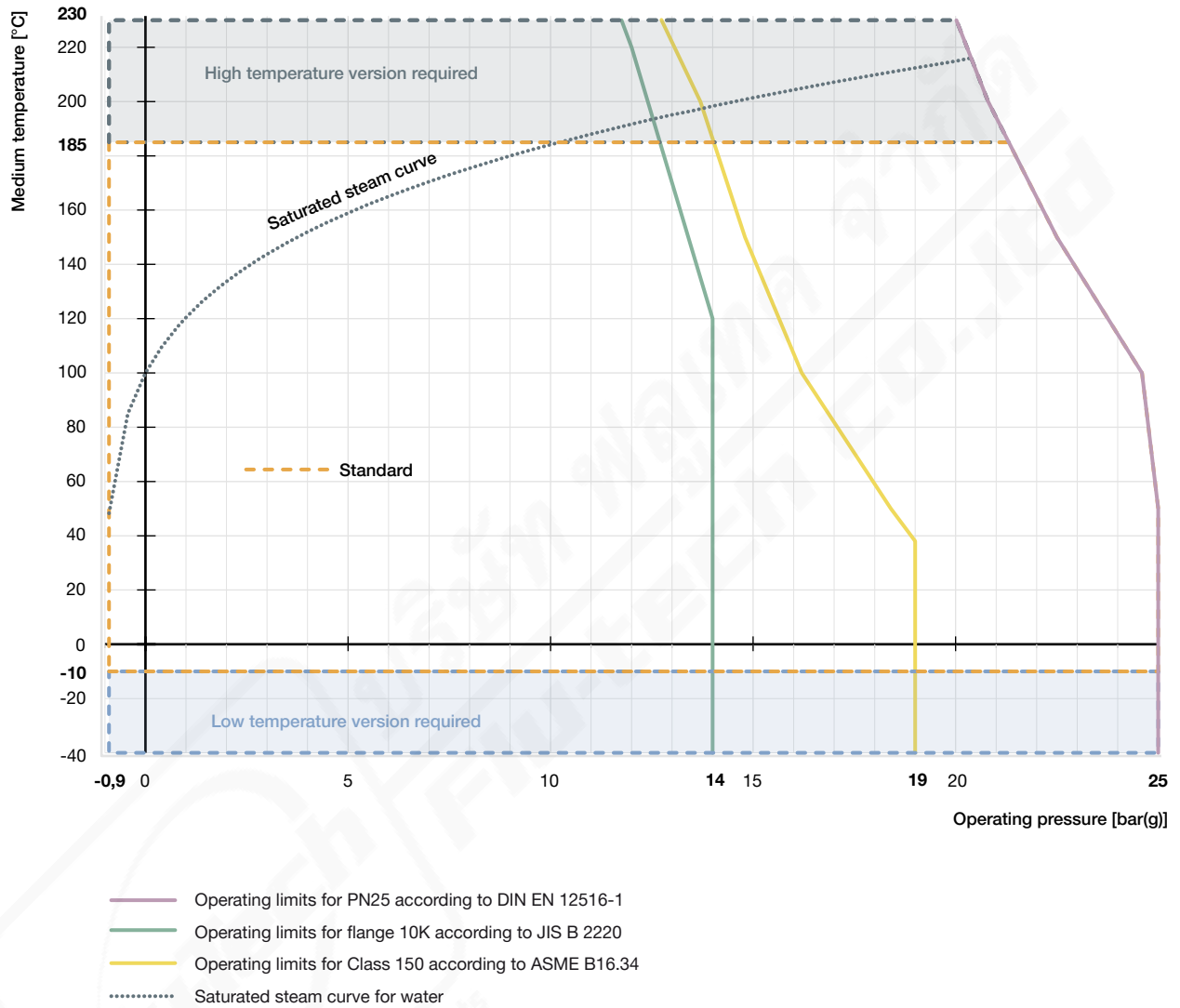
Nominal diameter:  
 DN40 —  
 DN50 —

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## 6.2. Operating limits

### Operating limits for medium temperature and operating pressure

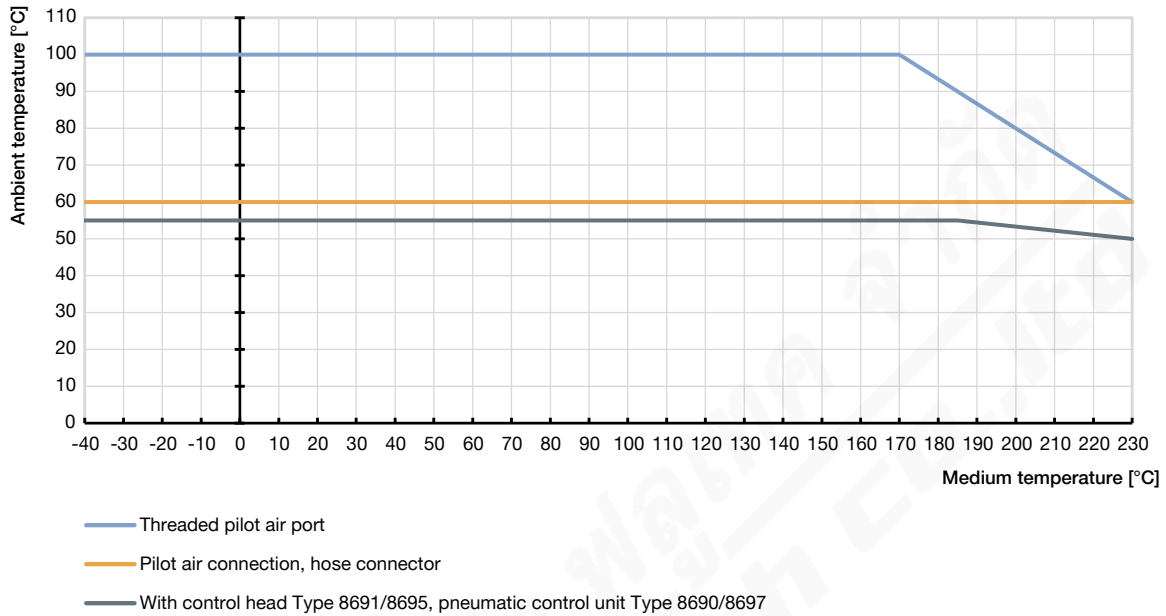
The operating range of Bürkert process valves is in addition to the maximum operating pressures limited by the nominal pressure according to the relevant standard.



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**Operating limits for ambient and medium temperature**

ELEMENT On/Off valve



**Operating limits for optional versions**

**High-temperature version**

Thanks to an adaption of the spindle seal, this version is suitable for applications with steam, neutral gases and other heat transfer mediums up to +230 °C.

**Water version**

For applications with water up to +200 °C, a special configuration of the spindle seal increases service life significantly. It is recommended for water temperatures starting at +85 °C.

**Drinking water version**

Wetted materials are tested 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 for pressures 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 are suitable for operating pressures up to 25 bar(g) and medium temperatures up to +60 °C.

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## 7. Product accessories

<b>Electrical position indicator</b>	
<b>Control head</b>	
<b>Type 8691 ▶ Actuator size 70 mm</b>	
	<p>The control heads Type 8691 and Type 8695 are optimised for integrated mounting on process valves of the 21XX series. The valve position is detected without contact via an analogue sensor element. The sensor element automatically detects and stores the valve end positions during commissioning using the teach function. The integrated pilot valve controls single-acting or double-acting actuators. The valve switching status 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-performance LEDs</li> <li>• Wear-free inductive position sensor</li> <li>• Pilot valve with manual override</li> <li>• Teach function for automatic recognition of valve end positions</li> <li>• Hygienic stainless steel design</li> <li>• Easy-to-clean, chemically resistant housing according to IP65/67, 4X rating</li> <li>• AS-Interface, IO-Link, Bürkert system bus (bÜS)</li> </ul>
<b>Type 8695 ▶ Actuator size Ø 50 mm</b>	
	<p><b>Customer benefits</b></p> <ul style="list-style-type: none"> <li>• Simple and safe commissioning using the teach function</li> <li>• Easy process monitoring and fault detection through visible coloured high-performance 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 plant piping for more flexibility in plant design</li> </ul>
<b>Pneumatic control unit/position feedback</b>	
<b>Type 8690 ▶ Actuator size 70 mm</b>	
	<p>The pneumatic control units Type 8690 and 8697 are optimised 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-acting 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, chemically resistant housing according to IP65/67, 4X rating</li> <li>• Optionally intrinsically safe design according to ATEX/IECEx</li> </ul>
<b>Type 8697 ▶ Actuator size Ø 50 mm</b>	
	<p><b>Customer benefits</b></p> <ul style="list-style-type: none"> <li>• Simple and safe commissioning using the teach function (Type 8697)</li> <li>• Signal reliability due to the automatic adjustment of the limit switches</li> <li>• Minimal space requirement in plant piping for more flexibility in plant design</li> </ul>

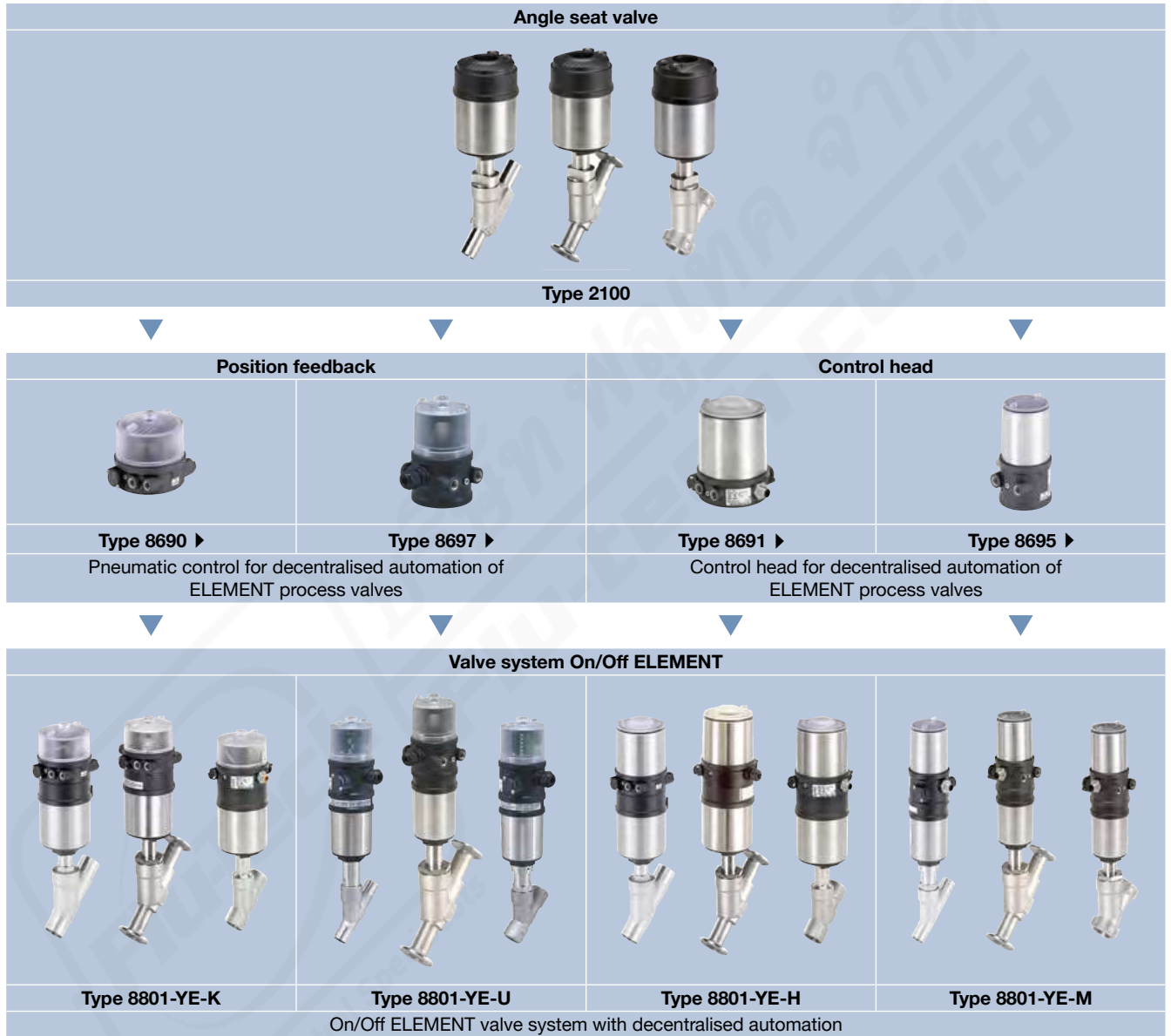
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## 8. Networking and combination with other Bürkert products

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 use the **Product Enquiry Form** (see “9.3. Bürkert Product Enquiry Form” on page 22).
- You order two components and receive a completely assembled and tested valve.



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## 9. Ordering information

### 9.1. Bürkert eShop



#### Bürkert eShop – Easy ordering and quick delivery

You want to find your desired Bürkert product or spare part quickly and order directly? Our online shop is available for you 24/7. Sign up and enjoy all the benefits.

[Order online now](#)

### 9.2. Bürkert product filter



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

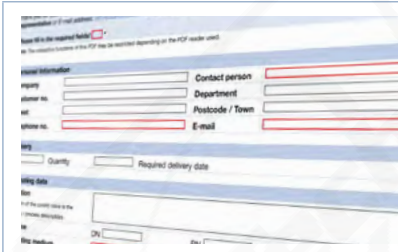
You want to select products comfortably based on your technical requirements? Use the Bürkert product filter and find suitable articles for your application quickly and easily.

[Try out our product filter](#)

### 9.3. Bürkert Product Enquiry Form

**Note:**

Please see our Product Enquiry Form for a full explanation of our specification key.



#### Bürkert Product Enquiry Form – Your enquiry quickly and compactly

Would you like to make a specific product enquiry based on your technical requirements? Use our Product Enquiry Form for this purpose. There you will find all the relevant information for your Bürkert contact. This will enable us to provide you with the best possible advice.

[Fill out the form now](#)

### 9.4. Ordering chart threaded connection

Valves with flow direction below seat

Control function	Nominal diameter (port connection)	Threaded port connection	Actuator size Ø	Pilot pressure min.	Operating pressure max.	Article no.	Article no. ATEX II 2GD certified (mechanical)
	DN	[inch]	[mm]	[bar(g)]	[bar(g)]		
A (CF A) see control functions <sup>1.)</sup>	15	G ½"	50 (D)	5.2	25	213619	259510
		G ½"	70 (M)	5.0	25	213620	259511
	20	G ¾"	50 (D)	5.2	16	227616	259513
		G ¾"	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 1¼"	70 (M)	5.0	8.5	213623	259519
		G 1¼"	90 (N)	5.0	25	213624	259521
	40	G 1½"	70 (M)	5.0	6	213625	259523
		G 1½"	90 (N)	5.0	16	213627	259524
	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 2½"	90 (N)	5.0	5	239456	259527
		G 2½"	130 (P)	5.6	16 (15 <sup>3.)</sup> )	239472	259530
A (CF B) see control functions <sup>1.)</sup>	15	G ½"	50 (D)	See diagram <sup>2.)</sup>	25	213637	259531
		G ½"	70 (M)		25	213638	259532
	20	G ¾"	50 (D)		25	213639	259533
		G ¾"	70 (M)		25	213640	259535
	25	G 1"	70 (M)		25	213641	259537
	32	G 1¼"	70 (M)		25	213642	259538
	40	G 1½"	70 (M)		25	213643	259539
	50	G 2"	70 (M)		16	175123	259540
	65	G 2½"	90 (N)		14	239464	259565
		G 2½"	130 (P)		16 (15 <sup>3.)</sup> )	239479	259566

1.) Further information can be found in chapter "2. Control functions" on page 5.

2.) See diagram in chapter "Pilot pressure diagram with flow direction below seat (Control function B)" on page 15

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 (port connection)	Threaded port connection	Actuator size Ø	Pilot pressure min.	Operating pressure max.	Article no.
	DN	[inch]	[mm]	[bar(g)]	[bar(g)]	
A (CF A) see control functions <sup>1.)</sup>	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 ☒
A (CF B) see control functions <sup>1.)</sup>	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 ☒
	32	NPT 1 1/4"	70 (M)		25	213666 ☒
	40	NPT 1 1/2"	70 (M)		25	213667 ☒
	50	NPT 2"	70 (M)		16	188656 ☒
	65	NPT 2 1/2"	90 (N)		14	239465 ☒
		NPT 2 1/2"	130 (P)		16 (15 <sup>3.)</sup> )	239480 ☒

1.) Further information can be found in chapter "2. Control functions" on page 5.

2.) See diagram in chapter "Pilot pressure diagram with flow direction below seat (Control function B)" on page 15

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)

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Control function	Nominal diameter (port connection)	Threaded port connection	Actuator size Ø	Pilot pressure min.	Operating pressure max.	Article no.
	DN	[inch]	[mm]	[bar(g)]	[bar(g)]	
A (CF A) see control functions <sup>1.)</sup>	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
A (CF B) see control functions <sup>1.)</sup>	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
	32	RC 1 1/4"	70 (M)		25	213690
	40	RC 1 1/2"	70 (M)		25	213691
	50	RC 2"	70 (M)		16	188679
	65	RC 2 1/2"	90 (N)		14	239466
		RC 2 1/2"	130 (P)		16 (15 <sup>3.)</sup> )	239481

- 1.) Further information can be found in chapter "2. Control functions" on page 5.
- 2.) See diagram in chapter "Pilot pressure diagram with flow direction below seat (Control function B)" on page 15
- 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	

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Valves with flow direction above seat

Control function	Nominal diameter (port connection)	Threaded port connection	Actuator size Ø	Pilot pressure min.	Operating pressure max.	Article no.	Article no. ATEX II 2GD certified (mechanical)
	DN	[inch]	[mm]	[bar(g)]	[bar(g)]		
A (CF A) see control functions <sup>1)</sup>	15	G ½"	50 (D)	See diagram <sup>2)</sup>	16	213628	259567
		G ½"	70 (M)		16	213629	259568
	20	G ¾"	50 (D)		16	213630	259569
		G ¾"	70 (M)		16	213631	259571
	25	G 1"	50 (D)		16	213632	259573
		G 1"	70 (M)		16	213633	259575
	32	G 1¼"	70 (M)		16	213634	259576
		G 1½"	70 (M)		16	213635	259577
	40	G 1½"	90 (N)		16	213636	259578
			G 2"		70 (M)	12	175115
		G 2"	90 (N)		16	175116	259580

- 1.) Further information can be found in chapter "2. Control functions" on page 5.
- 2.) See diagram in chapter "Pilot pressure diagram with flow direction below seat (Control function B)" on page 15

Control function	Nominal diameter (port connection)	Threaded port connection	Actuator size Ø	Pilot pressure min.	Operating pressure max.	Article no.
	DN	[inch]	[mm]	[bar(g)]	[bar(g)]	
A (CF A) see control functions <sup>1)</sup>	15	NPT ½"	50 (D)	See diagram <sup>2)</sup>	16	213652
		NPT ½"	70 (M)		16	213653
	20	NPT ¾"	50 (D)		16	213654
		NPT ¾"	70 (M)		16	213655
	25	NPT 1"	50 (D)		16	213656
		NPT 1"	70 (M)		16	213657
	32	NPT 1¼"	70 (M)		16	213658
	40	NPT 1½"	70 (M)		16	213659
	50	NPT 2"	70 (M)		12	188649

- 1.) Further information can be found in chapter "2. Control functions" on page 5.
- 2.) See diagram in chapter "Pilot pressure diagram with flow direction below seat (Control function B)" on page 15

Control function	Nominal diameter (port connection)	Threaded port connection	Actuator size Ø	Pilot pressure min.	Operating pressure max.	Article no.
	DN	[inch]	[mm]	[bar(g)]	[bar(g)]	
A (CF A) see control functions <sup>1)</sup>	15	RC ½"	50 (D)	See diagram <sup>2)</sup>	16	213676
		RC ½"	70 (M)		16	213677
	20	RC ¾"	50 (D)		16	213678
		RC ¾"	70 (M)		16	213679
	25	RC 1"	50 (D)		16	213680
		RC 1"	70 (M)		16	213681
	32	RC 1¼"	70 (M)		16	213682
	40	RC 1½"	70 (M)		16	213683
	50	RC 2"	70 (M)		12	188672

- 1.) Further information can be found in chapter "2. Control functions" on page 5.
- 2.) See diagram in chapter "Pilot pressure diagram with flow direction below seat (Control function B)" on page 15

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9.5. Ordering chart welded connection

Valves with flow direction below seat

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

1.) Further information can be found in chapter "2. Control functions" on page 5.

2.) See diagram in chapter "Pilot pressure diagram with flow direction below seat (Control function B)" on page 15

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)

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Valves with flow direction above seat

Control function	Nominal diameter (port connection)	Port connection pipe Ø	Actuator size Ø	Pilot pressure min.	Operating pressure max.	Article no.
	DN	[mm]	[mm]	[bar(g)]	[bar(g)]	
<b>DIN EN ISO 1127 / ISO 4200</b>						
<b>A (CF A)</b> see control functions <sup>1.)</sup>	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>A (CF A)</b> see control functions <sup>1.)</sup>	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>A (CF A)</b> see control functions <sup>1.)</sup>	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>A (CF A)</b> see control functions <sup>1.)</sup>	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 can be found in chapter "2. Control functions" on page 5.

2.) See diagram in chapter "Pilot pressure diagram with flow direction below seat (Control function B)" on page 15

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9.6. Ordering chart clamp connection

Valves with flow direction below seat

Control function	Nominal diameter (port connection)	Port connection external clamp Ø [mm]	Actuator size Ø		Pilot pressure min. [bar(g)]	Operating pressure max. [bar(g)]	Article no.		
	DN		[mm]	DN					
<b>DIN 32676 series B (pipe: ISO 4200)</b>									
<b>A (CF A)</b> see control functions <sup>1.)</sup>	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			
	50	77.5	90 (N)	5.0	10	188790			
		77.5	130 (P)	5.0	25 (20 <sup>3.)</sup> )	188791			
	<b>A (CF B)</b> see control functions <sup>1.)</sup>	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>A (CF A)</b> see control functions <sup>1.)</sup>		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>A (CF B)</b> see control functions <sup>1.)</sup>	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 can be found in chapter "2. Control functions" on page 5.

2.) See diagram in chapter "Pilot pressure diagram with flow direction below seat (Control function B)" on page 15

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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(g)]	[bar(g)]	
<b>DIN 32676 series B (pipe: ISO 4200)</b>						
<b>A (CF A)</b> see control functions <sup>1.)</sup>	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>A (CF A)</b> see control functions <sup>1.)</sup>	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 can be found in chapter "2. Control functions" on page 5.

2.) See diagram in chapter "Pilot pressure diagram with flow direction below seat (Control function B)" on page 15

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