



### 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 unit for decentralised automation of process valves ELEMENT	▶
	<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 unit for decentralised automation of process valves ELEMENT	▶
	<b>Type 8801</b> ELEMENT On/Off valve systems with decentralised automation – overview	▶
	<b>Type 8840</b> 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.

DTS 1000496323 EN Version: N Status: RL (released | freigegeben | validé) printed: 20.02.2025

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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 3/8...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 "6.1. Fluidic data" on page 14)
Nominal pressure	PN 25 (DIN EN 1333), Class 150 (DIN EN 1759)
Pilot pressure	2.5 bar(g)...10 bar(g) (see "6.1. Fluidic data" on page 14)
Seat leakage	Leakage rate A (DIN EN 12266 - 1), seat seal PTFE and PEEK, test medium air
K <sub>v</sub> value	4.8 m <sup>3</sup> /h...+ 140 m <sup>3</sup> /h (see "6.1. Fluidic data" on page 14)
Medium data	
Operating 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 mm <sup>2</sup> /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 1/4") or thread G 1/8" (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>		
<p>The symbol shows a valve with port 1 (A) at the bottom and port 2 (P) at the top. A spring symbol is connected to port 2. A downward arrow indicates flow from port 2 to port 1.</p>	<p><b>Control function A (CF A)</b>                      Pneumatically operated 2/2-way on/off valve                      Flow direction below seat                      Normally closed by spring force</p>	<p>A cross-sectional diagram of the valve showing the internal seat and stem. A spring is shown above the stem. An arrow points to the right, indicating flow from the top port to the bottom port.</p>
<p>The symbol shows a valve with port 1 (B) at the bottom and port 2 (P) at the top. A spring symbol is connected to port 2. A downward arrow indicates flow from port 2 to port 1.</p>	<p><b>Control function B (CF B)</b>                      Pneumatically operated 2/2-way on/off valve                      Flow direction below seat                      Normally opened by spring force</p>	<p>A cross-sectional diagram of the valve showing the internal seat and stem. A spring is shown above the stem. An arrow points to the right, indicating flow from the top port to the bottom port.</p>
<b>Flow direction above seat for steam and gases</b>		
<p>The symbol shows a valve with port 1 (P) at the bottom and port 2 (A) at the top. A spring symbol is connected to port 2. An upward arrow indicates flow from port 1 to port 2.</p>	<p><b>Control function A (CF A)</b>                      Pneumatically operated 2/2-way on/off valve                      Flow direction above seat                      Normally closed by spring force</p>	<p>A cross-sectional diagram of the valve showing the internal seat and stem. A spring is shown above the stem. An arrow points to the left, indicating flow from the bottom port to the top port.</p>
<b>3-position actuator</b>		
<b>Flow direction below seat</b>		
For valves with 3-position actuator an adjustable middle position is possible (option)		
<p>The symbol shows a valve with port 1 (A) at the bottom and port 2 (P) at the top. A spring symbol is connected to port 2. A downward arrow indicates flow from port 2 to port 1.</p>	<p><b>Control function A (CF A)</b>                      Pneumatically operated 2/3-way position valve                      Flow direction below seat                      Normally closed by spring force</p>	<p>A cross-sectional diagram of the valve showing the internal seat and stem. A spring is shown above the stem. An arrow points to the right, indicating flow from the top port to the bottom port.</p>

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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 (valid for the variable code PX51)</b> As a category 2 device suitable for zone 1/21 and zone 2/22.</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 18.0007X 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>Maximum surface temperature</td> <td>+ 300 °C</td> <td>+ 200 °C</td> <td>+ 135 °C</td> </tr> <tr> <td>Ambient temperature</td> <td>- 40...+ 130 °C</td> <td>- 40...+ 130 °C</td> <td>- 40...+ 100 °C</td> </tr> <tr> <td>Maximum medium temperature</td> <td>+ 285 °C</td> <td>+ 185 °C</td> <td>+ 125 °C</td> </tr> </tbody> </table> <p><b>Note:</b> The ambient and medium temperature range may be limited by non-ex-relevant specifications. Observe the Operating Instructions.</p>	Temperature class	T2	T3	T4	Maximum surface temperature	+ 300 °C	+ 200 °C	+ 135 °C	Ambient temperature	- 40...+ 130 °C	- 40...+ 130 °C	- 40...+ 100 °C	Maximum medium temperature	+ 285 °C	+ 185 °C	+ 125 °C
Temperature class	T2	T3	T4														
Maximum surface temperature	+ 300 °C	+ 200 °C	+ 135 °C														
Ambient temperature	- 40...+ 130 °C	- 40...+ 130 °C	- 40...+ 100 °C														
Maximum medium temperature	+ 285 °C	+ 185 °C	+ 125 °C														

#### 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.
	<b>China food GB Standards of the People's Republic of China (valid for the variable code PL10)</b> All wetted materials are compliant with the requirement of China food GB Standards according to the manufacturer's declaration.

### 3.7. Others

#### Oxygen

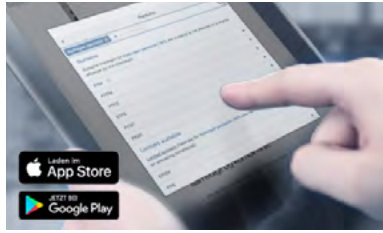
Conformity	Description
	<b>Optional: Suitability for oxygen (valid for the variable code NL02)</b> The products are suitable for use with gaseous oxygen, according to the manufacturer's declaration.

#### 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

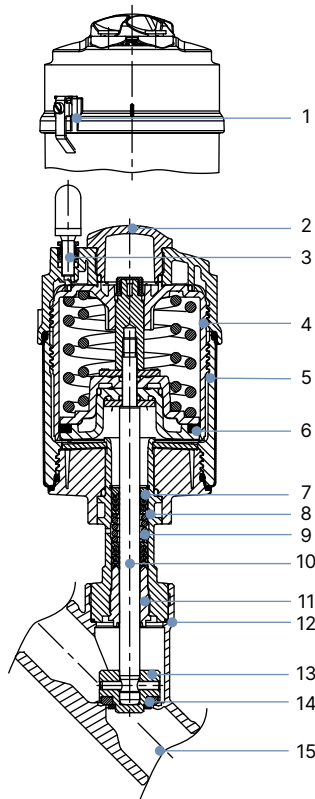
You want to ensure the reliability and durability of the materials in your individual application case? Verify your combination of media and materials on our website or in our resistApp.

[Start chemical resistance check](#)

### 4.2. Material specifications

**Note:**

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

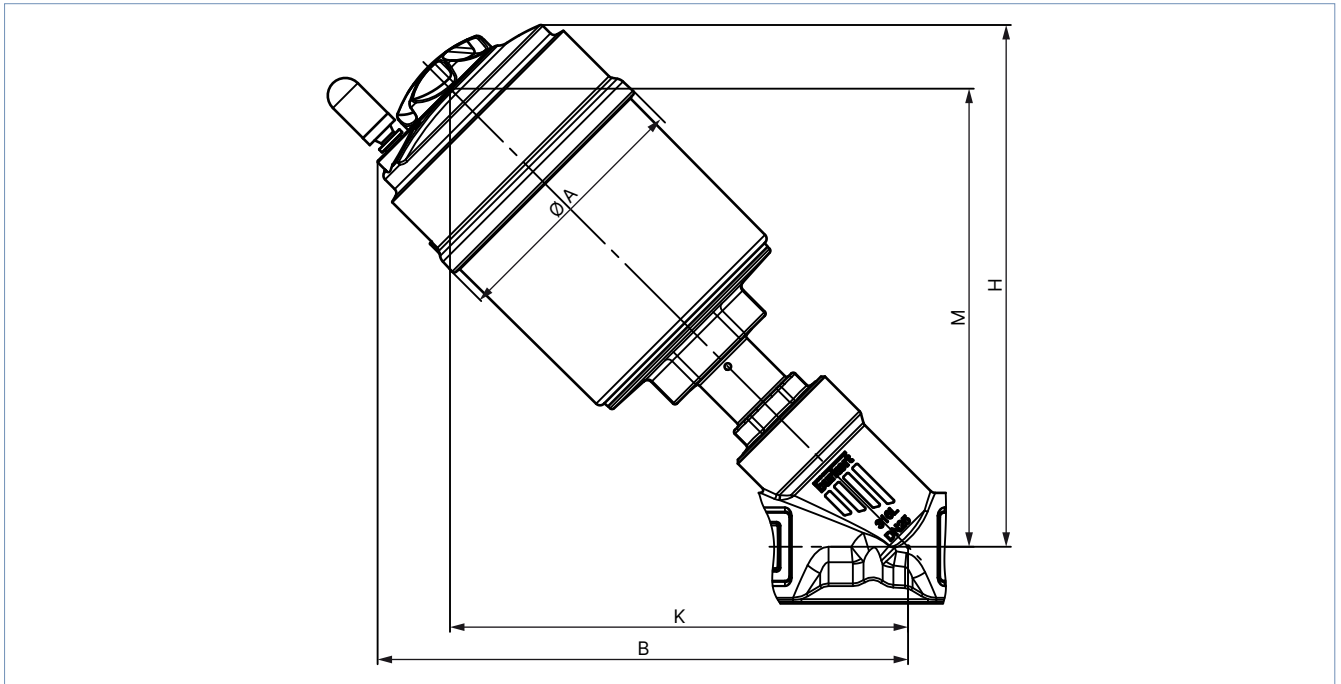


No.	Element	Material
1	Ground terminal	Stainless steel 1.4301/1.4305 only for ATEX version
2	Optical position indicator	Optical position indicator Polysulfone PSU
3	Pilot air ports	Push-in connector PP (Standard) On request: Thread G 1/8" Stainless steel 1.4305
4	Actuator	PPS
5	Cover	Stainless steel 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 [mm]	Ø A	B <sup>1)</sup>	H <sup>1)</sup>	K/M <sup>1)</sup>
DN	NPS					
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.

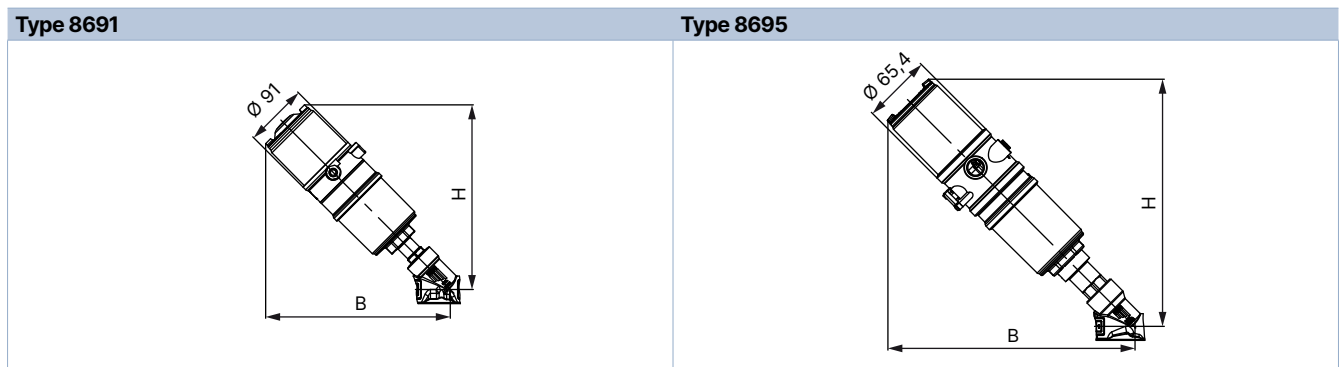
**Valve system On/Off ELEMENT**

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

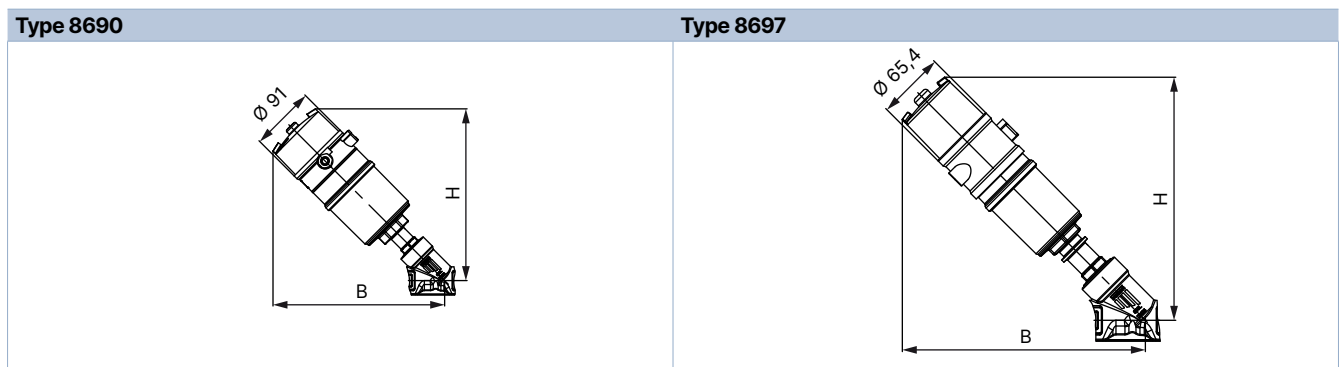
**Note:**

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

**Control head**



**Pneumatic control unit/Position feedback**

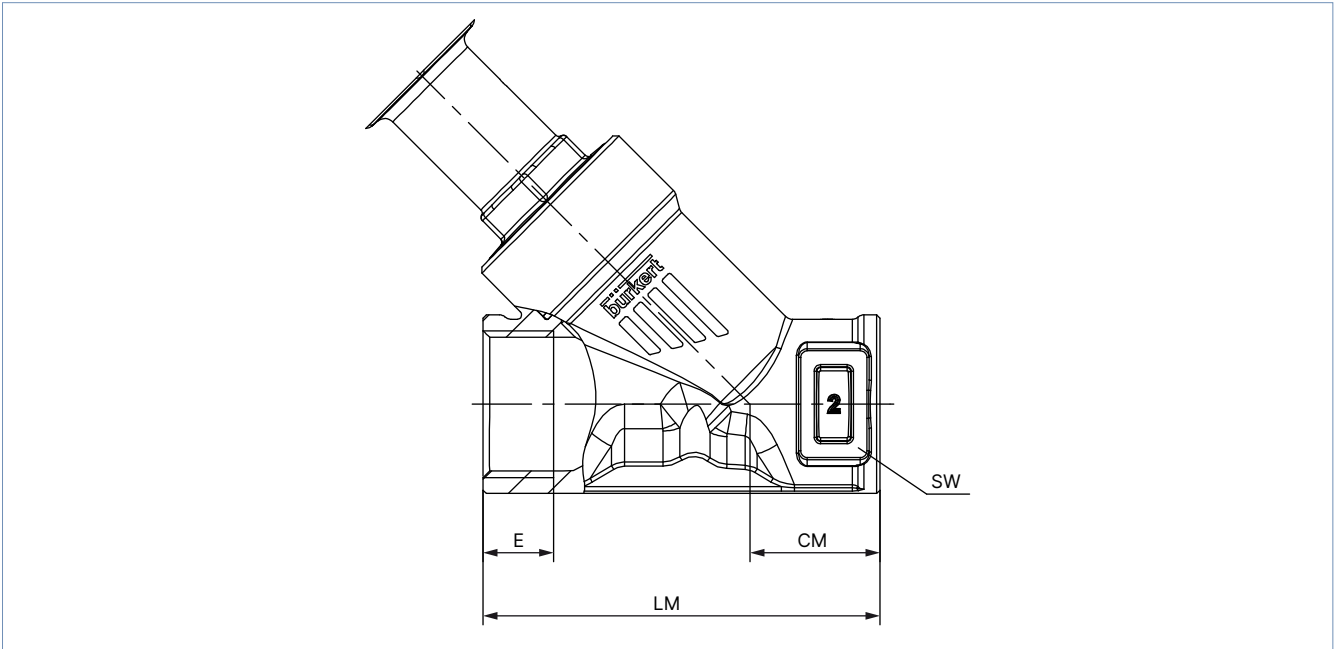


Nominal diameter (port connection)		Actuator size	B/H <sup>1.)</sup> with	
DN	NPS	[mm]	Type 8690 or Type 8697	Type 8691 or Type 8695
10	3/8	50 (D)	226	239
		70 (M)	232	256
15	1/2	50 (D)	226	239
		70 (M)	232	256
20	3/4	50 (D)	234	247
		70 (M)	240	264
25	1	50 (D)	236	249
		70 (M)	242	266
		90 (N)	276	303
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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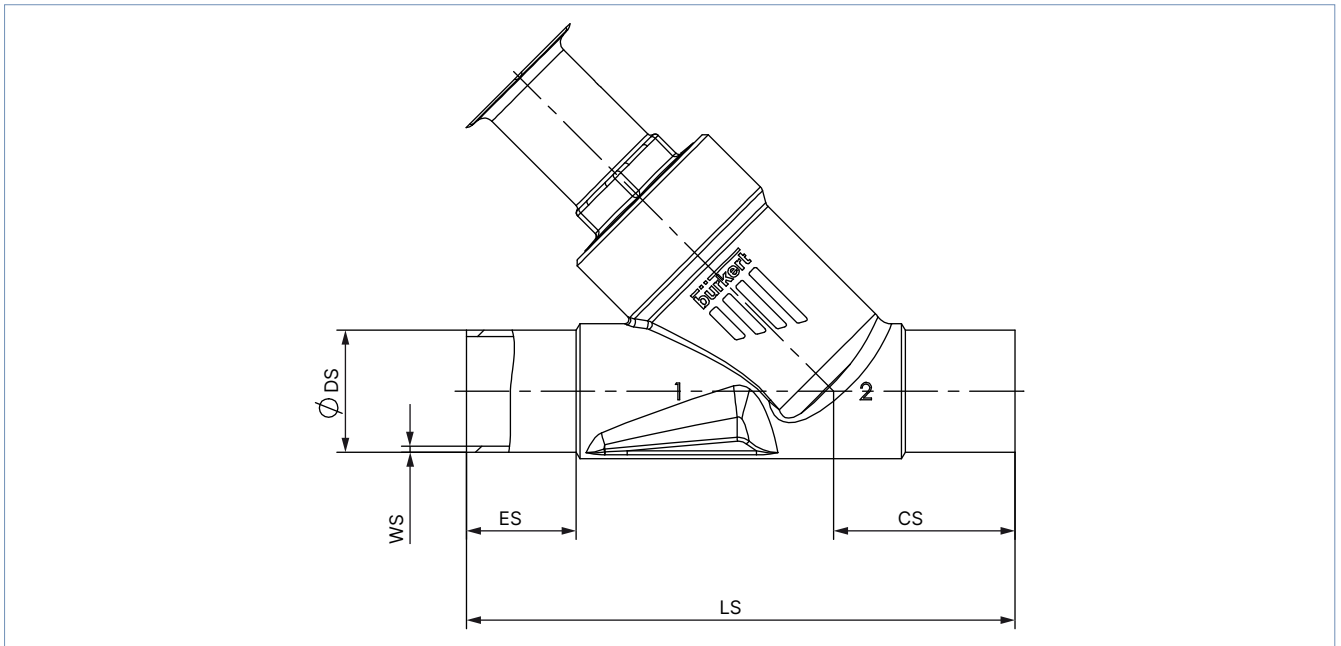
5.2. Body with threaded connection



Nominal diameter (port connection)		G (DIN ISO 228 - 1) NPT (ASME B1.20.1) RC (ISO 7 - 1)					
DN	NPS	E			CM	LM	SW
		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

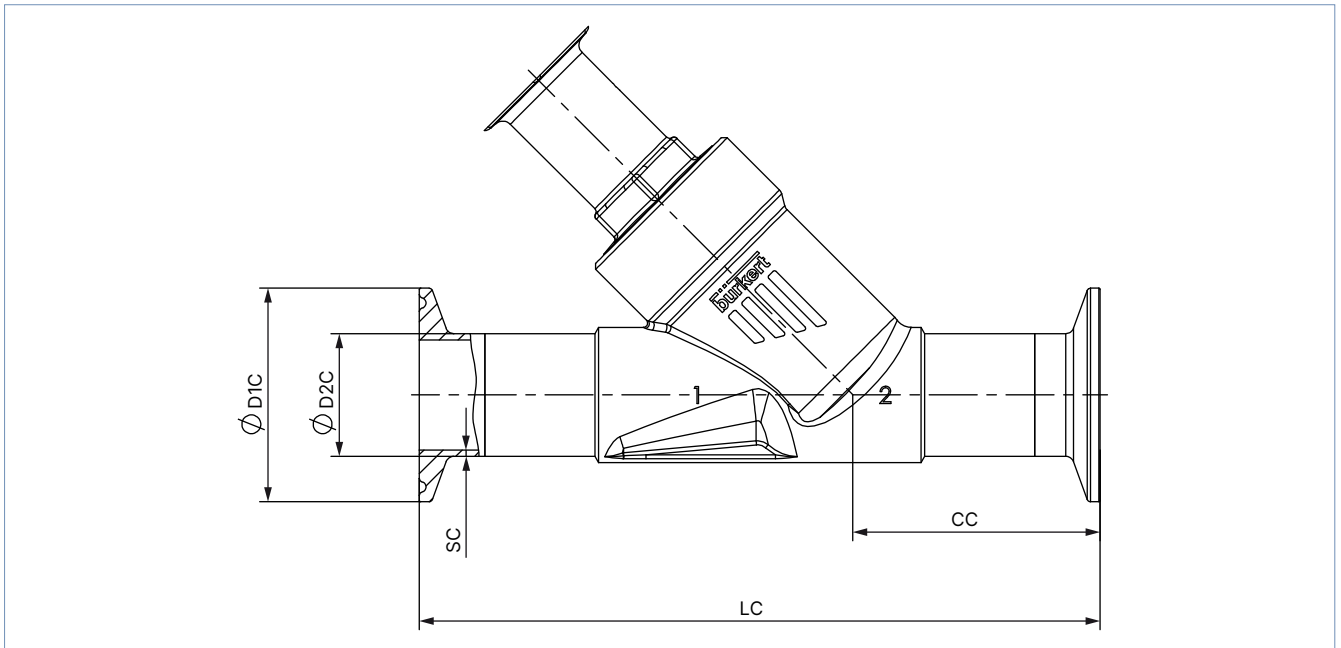


Nominal diameter (port connection)	DIN EN ISO 1127 / ISO 4200 / DIN 11866 series B					DIN 11850 - 2 / DIN 11866 series A				
	ES	CS	LS	Ø DS	WS	ES	CS	LS	Ø DS	WS
15	19	34	100	21.3	1.6	19	34	100	19	1.5
20	20	39	115	26.9	1.6	20	39	115	23	1.5
25	26	43	130	33.7	2.0	26	43	130	29	1.5
32	26	45	145	42.4	2.0	26	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
80	26	88.5	266	88.9	2.3	26	88.5	266	85	2

Nominal diameter (port connection)	ASME BPE / DIN 11866 series C				
	ES	CS	LS	Ø DS	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
3	26	88.5	266	76.2	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				
	LC	CC	Ø D1 C	Ø D2 C	SC	LC	CC	Ø D1 C	Ø D2 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 (port connection)	Clamp: ASME BPE Pipe: ASME BPE / DIN 11866 series C				
	LC	CC	Ø D1 C	Ø D2 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

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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<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

Nominal diameter (port connection)		Actuator size Ø	$K_v$ value water	Pilot pressure min. CF A	Operating pressure max.		
					CF A	CF B	
					Seat seal		
					PTFE	PEEK	PTFE
DN	NPS	[mm]	[m <sup>3</sup> /h]	[bar(g)]	[bar(g)]	[bar(g)]	[bar(g)]
10	3/8	50 (D)	4.8 <sup>2.)</sup>	5.2	25	25	25
		70 (M)	4.8 <sup>2.)</sup>	5	25	25	25
15	1/2	50 (D)	5 <sup>2.)</sup>	5.2	25	25	25
		70 (M)	5 <sup>2.)</sup>	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

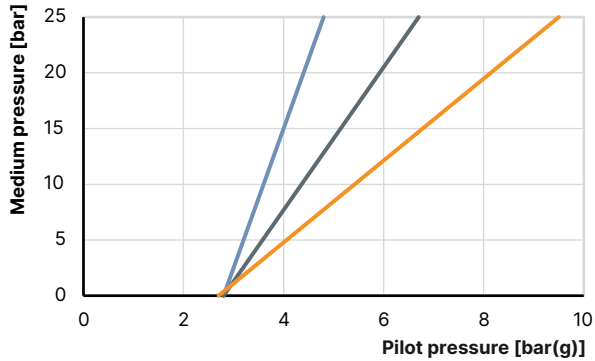
1.) According to pressure equipment directive 2014/68/EU for compressible fluids of group 1 (dangerous gases and vapours according to Article 4, paragraph (1), c), i), first indent)

3.) The  $K_v$  value of versions with pipe connection in accordance with ASME BPE is 1.6 m<sup>3</sup>/h.

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

**Actuator size Ø 50 mm**

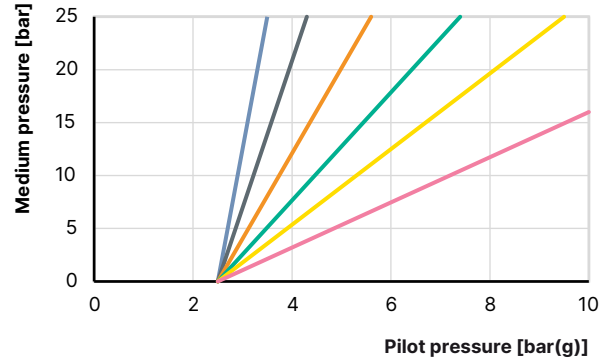
Maximum control pressure 10 bar(g)



**Nominal diameter**  
 DN10/15 — DN25 —  
 DN20 —

**Actuator size Ø 70 mm**

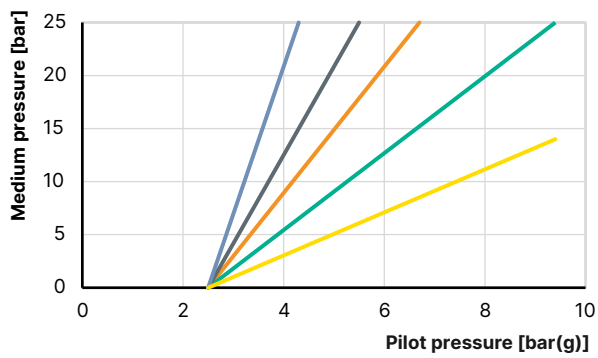
Maximum control pressure 10 bar(g)



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

**Actuator size Ø 90 mm**

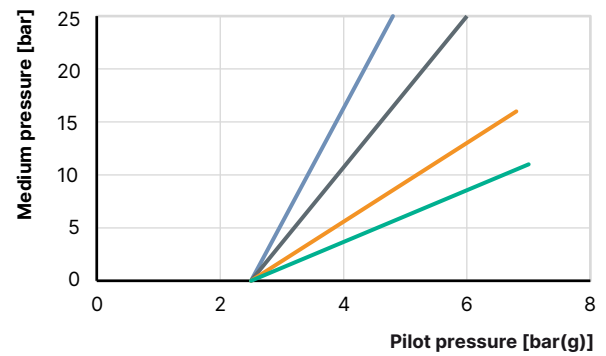
Maximum control pressure 10 bar(g)



**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	

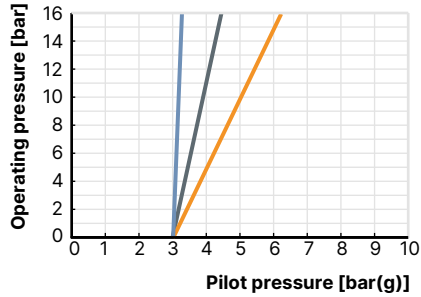
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**Pilot pressure diagram with flow direction above seat (control function A)**

**Actuator size Ø 50 mm**

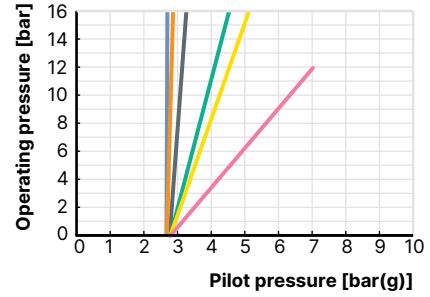
Maximum control pressure 10 bar(g)



**Nominal diameter**  
 DN15 — DN25 —  
 DN20 —

**Actuator size Ø 70 mm**

Maximum control pressure 10 bar(g)



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

**Actuator size Ø 90 mm**

Maximum control pressure 10 bar(g)

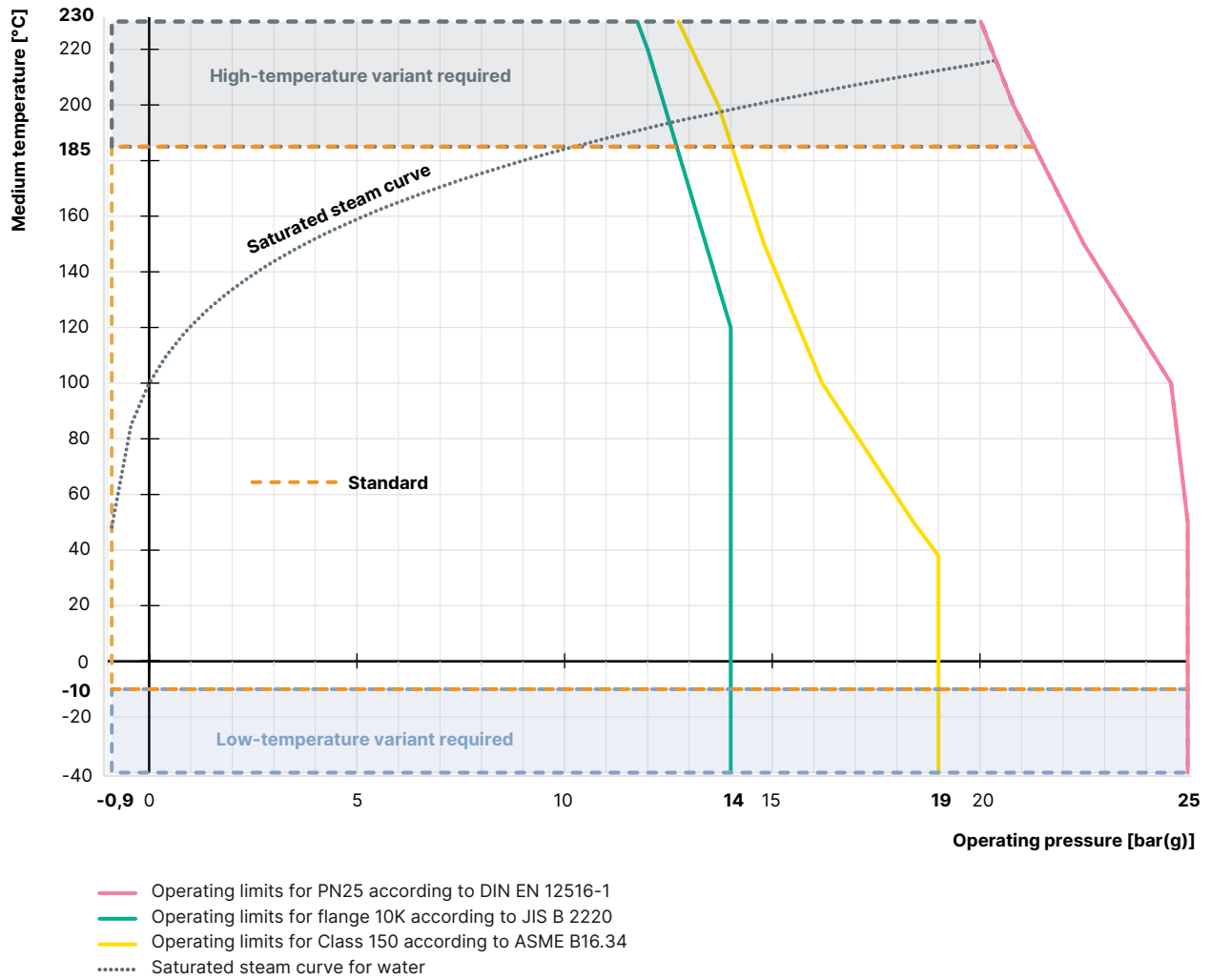


**Nominal diameter**  
 DN40 —  
 DN50 —

## 6.2. Operating limits

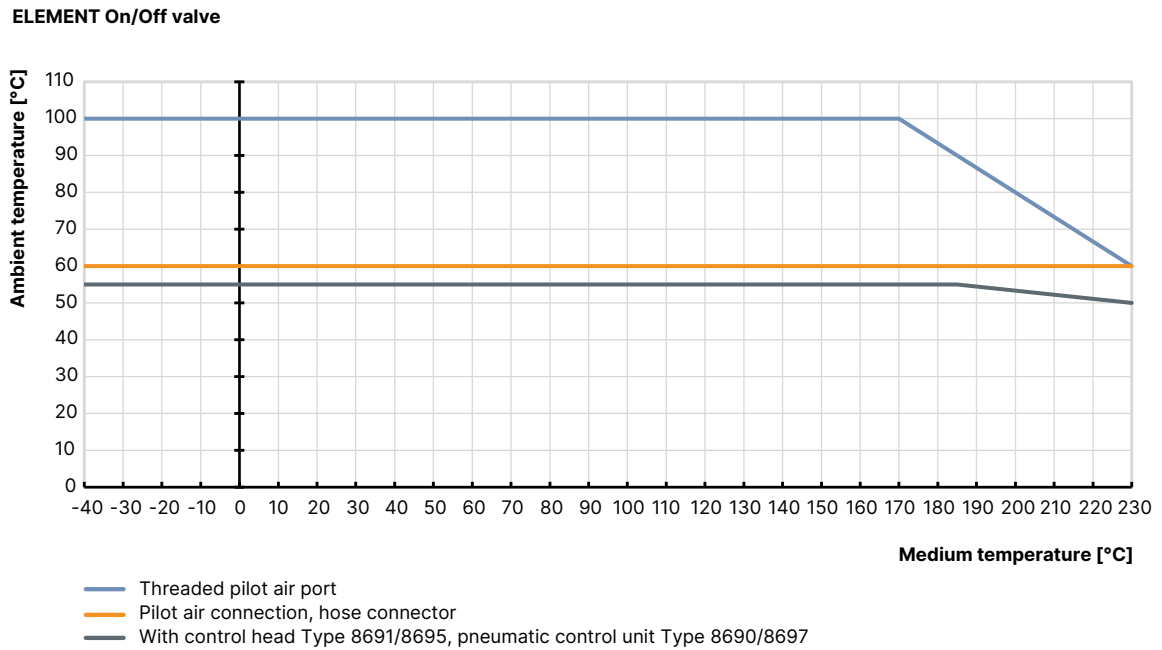
### Operating limits for medium temperature and operating pressure

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**



**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

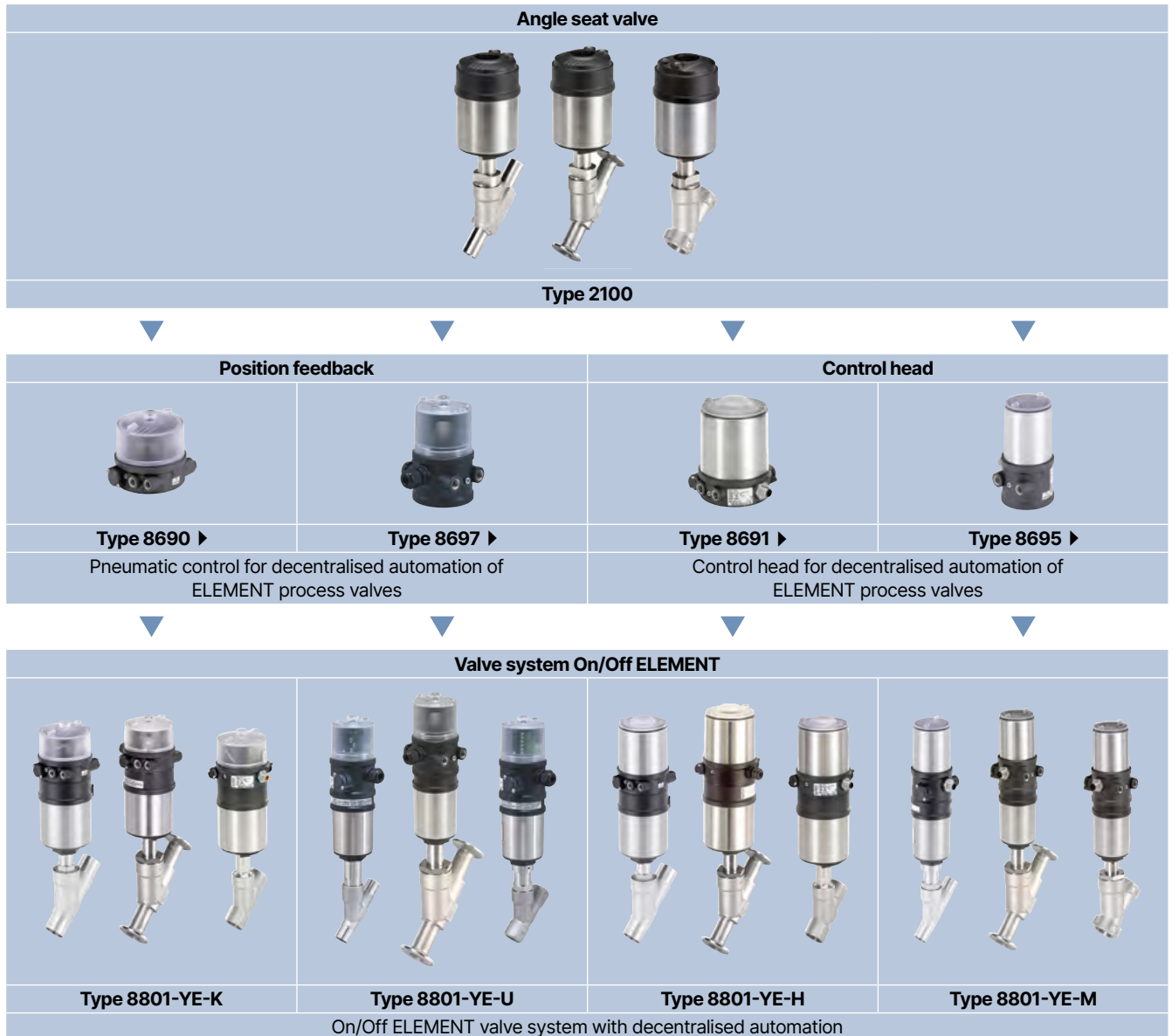
Electrical position indicator	
Control head	
<b>Type 8691 ▶ Actuator size 70 mm</b>	
	<p>The control heads Type 8691 and Type 8695 are optimised for integrated mounting on process valves of the 21XX series. The valve position is detected without contact via an analogue sensor element. The sensor element 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>
Pneumatic control unit/position feedback	
<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>

### 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

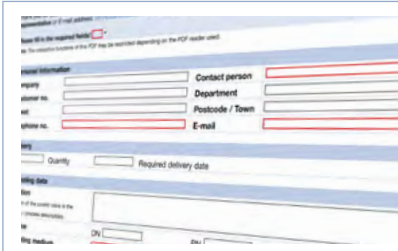
You want to select products comfortably based on your technical requirements? Use the Bürkert product filter and find suitable articles for your application quickly and easily.

[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](#)

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## 9.4. Ordering chart threaded connection

### Valves with flow direction below seat

Control function	Nominal diameter (port connection)	Threaded port connection [inch]	Actuator size Ø [mm]	Pilot pressure min. [bar(g)]	Operating pressure max. [bar(g)]	Article no.	Article no. ATEX II 2GD certified (mechanical)
	DN						
A (CF A) see control functions <sup>1.)</sup>	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 
	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 
A (CF B) see control functions <sup>1.)</sup>	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 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)]	
<b>A (CF A)</b> 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
<b>A (CF B)</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
		NPT 1 1/4"	70 (M)		25	213666
	40	NPT 1 1/2"	70 (M)		25	213667
		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)



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	

DTS 1000496323 EN Version: N Status: RL (released | freigegeben | validé) printed: 20.02.2025

## 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 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 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 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 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 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 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

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 ☒
		25.4 × 1.65	70 (M)		25	188781 ☒
	40	38.1 × 1.65	70 (M)		25	188781 ☒
		38.1 × 1.65	70 (M)		16	188744 ☒
	50	50.8 × 1.65	70 (M)		16	239469 ☒
		50.8 × 1.65	90 (N)		14	239469 ☒
	65	63.5 × 1.65	90 (N)		16 (15 <sup>3.)</sup> )	239484 ☒
		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 ☒
		25 × 1.2	70 (M)		25	188762 ☒
	40	38 × 1.2	70 (M)		25	188762 ☒
		38 × 1.2	70 (M)		16	188763 ☒
	50	51 × 1.2	70 (M)		16	188763 ☒
		51 × 1.2	90 (N)		14	239470 ☒
	65	63.5 × 1.65	90 (N)		16 (15 <sup>3.)</sup> )	239470 ☒
		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

## 9.6. Ordering chart clamp connection

### Valves with flow direction below seat

Control function	Nominal diameter (port connection)	Port connection external clamp Ø	Actuator size Ø	Pilot pressure min.	Operating pressure max.	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)	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 		
		50.5	70 (M)	25		188803 		
40		64.0	70 (M)	25		188804 		
		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 		
		50.5	70 (M)	25		188823 		
40		50.5	70 (M)	25		188823 		
		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

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