



## Pneumatically operated 2 way Globe Control Valve

- Excellent control characteristics
- High cycle life and maintenance-free operation
- Flow optimised body in stainless steel
- Several  $K_{VS}$  value per port size due to removable valve seats
- Control units can be mounted directly without external tubing

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

### Can be combined with

	<b>Type 8692</b> ▶ Digital electropneumatic Positioner for the integrated mounting on process control valves
	<b>Type 8694</b> ▶ Digital electropneumatic positioner for the integrated mounting on process control valves
	<b>Type 8693</b> ▶ Digital electropneumatic process controller for the integrated mounting on process control valves
	<b>Type 8792</b> ▶ Digital electropneumatic Positioner SideControl
	<b>Type 8791</b> ▶ Digital electropneumatic Positioner SideControl
	<b>Type 8793</b> ▶ Digital electropneumatic Process Controller SideControl
	<b>Type 8802</b> ▶ ELEMENT continuous control valve systems - overview

### Type description

In line with Bürkert's philosophy the construction of the type 2301 globe valve fulfils tough criteria for process environments. Unrivalled cycle life and sealing integrity is guaranteed by the proven self adjusting spindle packing with exchangeable V-seals. Each globe valve body can be fitted with up to five sizes of trim sets.

These parabolic trims provide a reliable and repeatable characteristic to vary the flow. The control cones are available in either stainless steel or with a durable PTFE seal or PEEK seal for tight shut-off. Leakage class III, IV or VI are available. The design enables the easy integration of automation modules whether they are digital electropneumatic positioner or process controller.

The fully integrated system has a compact and smooth design, integrated pneumatic lines, IP65/67 protection class and superior chemical resistance.

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## 1. General technical data

<b>Product properties</b>	
Dimensions	Detailed information can be found in chapter <b>"6. Dimensions"</b> on page 7.
Material	Detailed information can be found in chapter <b>"5. Materials"</b> on page 5.
Design	Globe control valve
Nominal diameter	DN10...DN100, NPS ¾...NPS 4
Safety setting in case of power failure	Normally closed (control function A), normally open (control function B)
Flow direction	Flow to open (below seat)
<b>Performance data</b>	
Operating pressure	0 bar(g) ... 25 bar(g), vacuum version up to -0.9 bar(g) (Option) see <b>"7.1. Fluidic data"</b> on page 13
Nominal pressure	PN25 (DIN EN 1333), Class 150 (DIN EN 1759)
Seat leakage acc. to DIN EN 60534-4:2006	Leakage class III and IV for stainless steel Leakage class VI for PTFE and PEEK (see <b>"7.1. Fluidic data"</b> on page 13)
K <sub>v</sub> value	0.1 m <sup>3</sup> /h...140 m <sup>3</sup> /h, see <b>"7.1. Fluidic data"</b> on page 13
Operating characteristic	Linear or equal percentage
Theoretical rangeability	Up to 50:1
<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 <b>"7.2. Operating limits"</b> on page 16
Viscosity	Max. 600 mm <sup>2</sup> /s
Control medium	Air, neutral gases
<b>Process/Port connection &amp; communication</b>	
<b>Port connection<sup>2)</sup></b>	
Flange connection	DIN EN 1092-1 ANSI B 16.5 JIS 10K
Threaded connection	G (DIN ISO 228-1) NPT (ASME B1.20.1) Rc (ISO 7-1)
Welded connection	DIN EN ISO 1127 / ISO 4200 / DIN11866 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
<b>Approvals and certificates</b>	
Conformity	Food contact 1935/2004(EG), FDA Drinking water Pressure Equipment Directive Gas Appliances Regulation Machinery Directive
Approvals	Explosion proof ATEX / IECex
Material certificate	2.2, 3.1
<b>Environment and installation</b>	
Degree of protection	IP65/67
Installation position	As required, preferably with actuator upright

## 2. Product versions

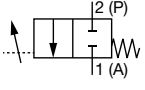
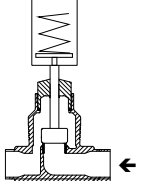
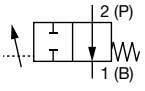
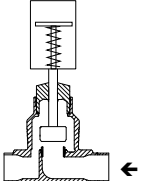
### 2.1. 2301 ELEMENT

Product properties	
Nominal diameter	DN10...100
Actuator size	50 mm (D), 70 mm (M), 90 mm (N), 130 mm (P)
Performance data	
Maximum pilot pressure	5.6...7 bar(g)
Medium data	
Medium temperature	-40 °C...230 °C, see "7.2. Operating limits" on page 16
Environment and installation	
Ambient temperature	-10...80 °C (for positioner or process controller Type 8791/8792/8793) -10...55 °C (for positioner or process controller Type 8692/8693/8694) See "Operating limits for ambient and medium temperature" on page 17

### 2.2. 2712 CLASSIC

Product properties	
Nominal diameter	DN65...100
Actuator size	225 mm (L)
Performance data	
Maximum pilot pressure	5.0...6.0 bar(g)
Medium data	
Medium temperature	-40 °C...180 °C, see "7.2. Operating limits" on page 16
Environment and installation	
Ambient temperature	-10...50 °C

## 3. Circuit functions

Control function (CF)	Description	
<b>Flow direction below seat for fluids, steam and gases</b>		
	<b>CF: A, pneumatically operated control valve</b> 2/2 way Flow direction below seat Normally closed by spring force	
	<b>CF: B, pneumatically operated control valve</b> 2/2 way Flow direction below seat Normally open by spring force	

## 4. Approvals

Approval	Description
	<b>Food produce contact</b> Materials in contact with the medium conform to EC regulation 1935/2004 (standard Type 2301, option Type 2712) Materials in contact with the medium conform to FDA (option)
	<b>Drinking water</b> Suitable for use with drinking water up to 85 °C according to KTW, W270 (option)
	<b>Oxygen</b> Suitable for use with gaseous oxygen for medium temperature up to 60 °C and operating pressure up to 25 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 Appliances Regulation (EU) 2016/426, DVGW DIN EN 161 and DIN EN 16678, Class D, suitable for medium temperature 0 °C...60 °C, ambient temperature -10...60 °C and operating pressures 0...25 bar(g) (option)

## 5. Materials

### 5.1. Chemical Resistance Chart – Bürkert resistApp

**Bürkert resistApp – Chemical Resistance Chart**

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

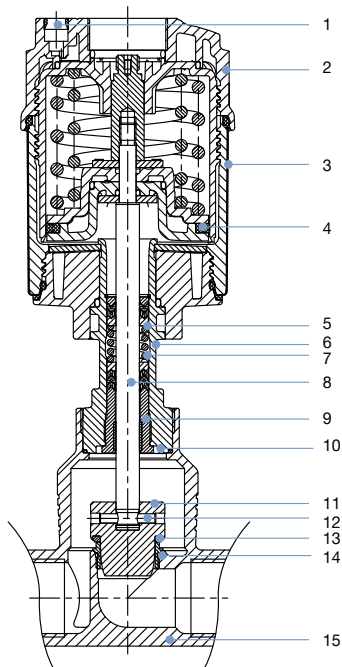
[Start Chemical Resistance Check](#)

## 5.2. Material specifications

### 2301 ELEMENT

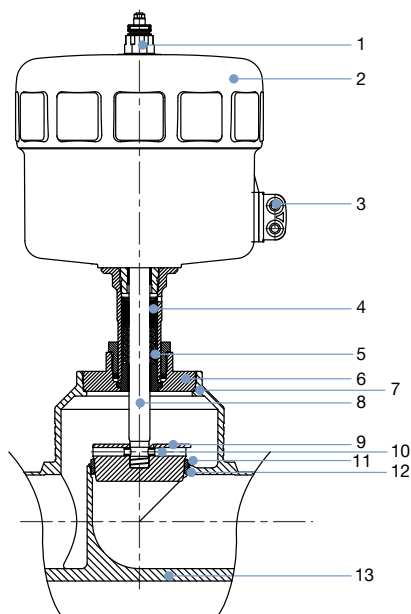
**Note:**

The Type 2301 globe control valve is supplied with different connection ports (flange, threaded, welded and clamp). These connections are not shown in the picture. They correspond to the material of the valve body.



No.	Element	Material
1	Pilot air ports	Push-in connector PP
2	Actuator	PPS
3	Cover	Stainless steel 1.4561 (316Ti)
4	Piston seal	FKM
5	Spring	Stainless steel 1.4310
6	Pipe	Stainless steel 1.4401 (316)
7	Spindle sealing	PTFE V-Rings (filled), with spring compensation
8	Spindle	Stainless steel 1.4401 (316)/1.4404 (316L)
9	Spindle guide	Stainless steel 1.4404 (316L), PTFE filled
10	Body seal	Graphite or PTFE
11	Control cone	Stainless steel 1.4571
12	Spring straight pin	Stainless steel 1.4310
13	Seat seal	Stainless steel 1.4571, PTFE or PEEK
14	Valve seat with O-Ring	Stainless steel 1.4571, EPDM
15	Valve body	Stainless steel 316L / CF3M

### 2712 CLASSIC



No..	Element	Material
1	Adapter	Stainless steel 1.4305
2	Actuator	PA Polyamide
3	Pilot air ports	Stainless steel 1.4305
4	Spindle sealing	PTFE V-Rings (filled), with spring compensation
5	Spring	Stainless steel 1.4568
6	Nipple	Stainless steel 1.4404
7	Body seal	Graphite or PTFE
8	Spindle	Stainless steel 1.4404
9	Control cone	Stainless steel 1.4571
10	Spring straight pin	Stainless steel 1.4310
11	Seat seal	Stainless steel 1.4571, PTFE or PEEK
12	Valve seat with O-Ring	Stainless steel 1.4571, EPDM
13	Valve body	Stainless steel 316L / CF3M

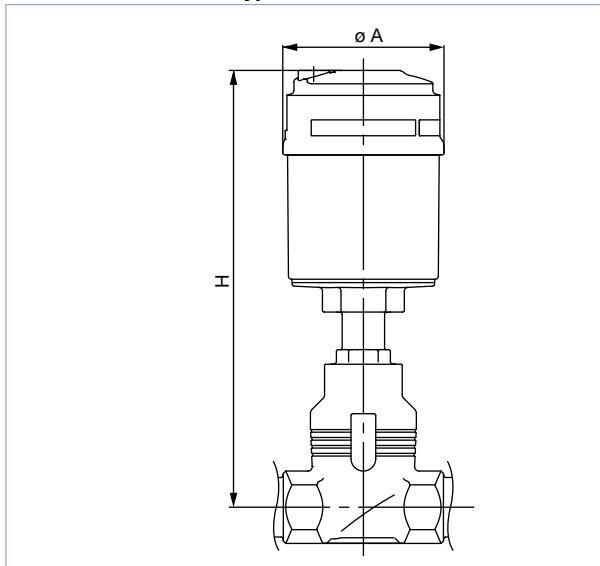
## 6. Dimensions

### 6.1. Actuator

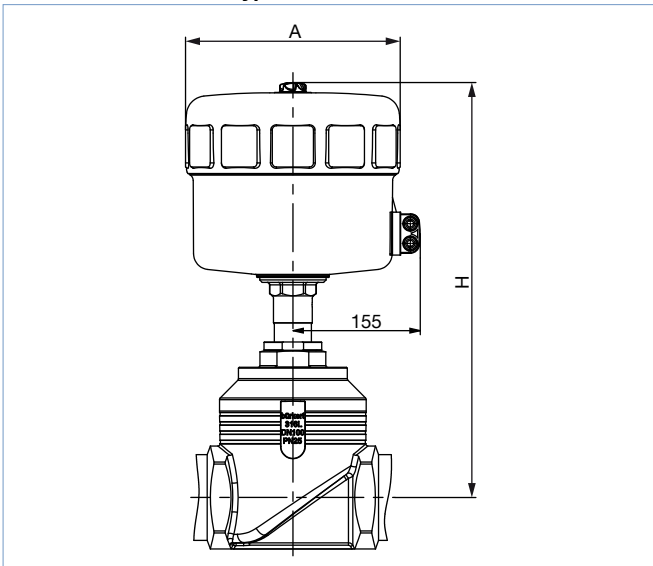
**Note:**

Dimensions in mm, unless otherwise stated

Continuous ELEMENT Type 2301 valve



Continuous ELEMENT Type 2712 valve



Nominal diameter (pipe)		Actuator size	$\varnothing A$	H
DN	NPS			
10	3/8	50(D)	64.5	226
		70(M)	91	239
15	1/2	50(D)	64.5	226
		70(M)	91	239
20	3/4	50(D)	64.5	232
		70(M)	91	245
25	1	50(D)	64.5	235
		70(M)	91	248
		90(N)	120	301
32	1 1/4	90(N)	120	329
		130(P)	159	381
40	1 1/2	90(N)	120	334
		130(P)	159	386
50	2	90(N)	120	340
		130(P)	159	392
65	2 1/2	130(P)	159	446
		225(L)	261	474
80	3	130(P)	159	454
		225(L)	261	482
100	4	130(P)	159	464
		225(L)	261	492

Valve system Continuous ELEMENT

Note:

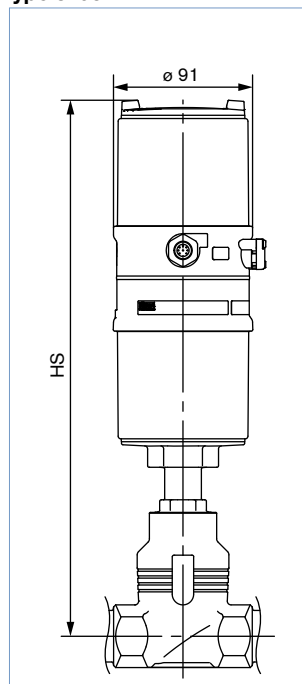
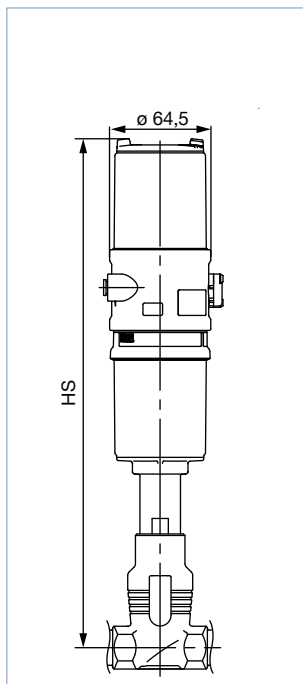
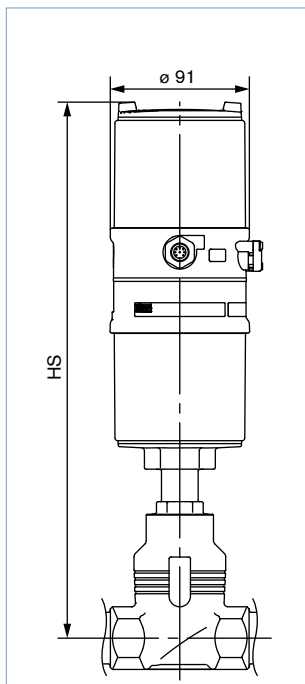
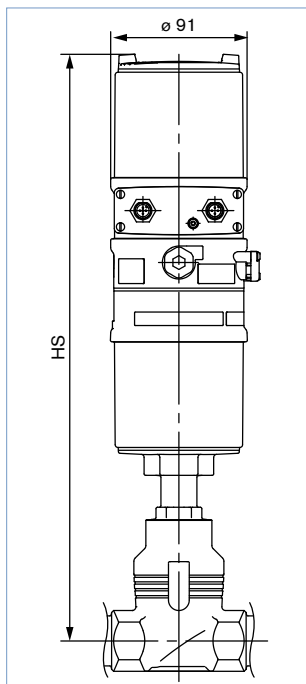
- Dimensions in mm, unless otherwise stated
- Please note actuator size A in table "6.1. Actuator" on page 7

With positioner  
TopControl, **Type 8692**  
or  
with process controller  
TopControl, **Type 8693**

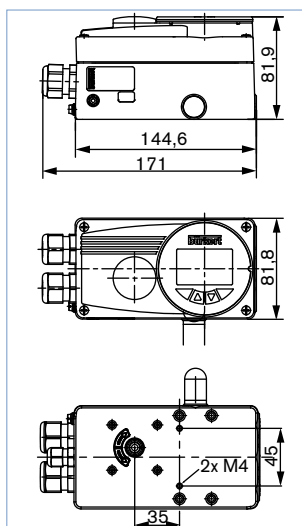
With positioner  
TopControl Basic,  
**Type 8694**

With positioner  
TopControl Basic,  
**Type 8696**

With remote positioner SideControl, **Type 8792**  
or  
with remote process controller  
SideControl,  
**Type 8793**



Nominal diameter (pipe)		Actuator size	HS with		
DN	NPS		8692 or 8693	8694 or 8696	8792 or 8793
10	3/8	50(D)	–	329	–
		70(M)	383	342	342
15	1/2	50(D)	–	329	–
		70(M)	383	342	342
20	3/4	50(D)	–	335	–
		70(M)	389	348	348
25	1	50(D)	–	342	–
		70(M)	392	351	351
		90(N)	445	404	404
32	1 1/4	90(N)	473	432	432
		130(P)	525	484	484
40	1 1/2	90(N)	478	437	437
		130(P)	530	489	489
50	2	90(N)	484	443	443
		130(P)	536	495	495
65	2 1/2	130(P)	590	549	549
		225(L)	629	586	586
80	3	130(P)	598	557	557
		225(L)	637	594	594
100	4	130(P)	608	567	567
		225(L)	647	604	604

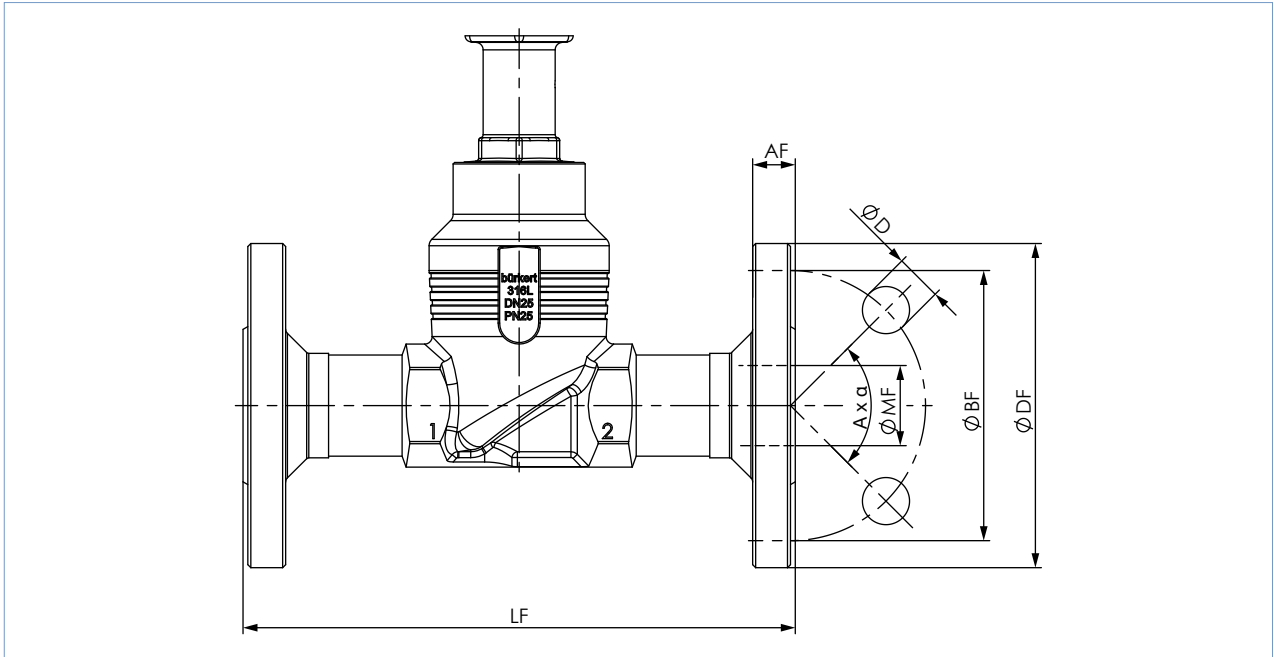




## 6.2. Body with flange connection

**Note:**

Dimensions in mm, unless otherwise stated



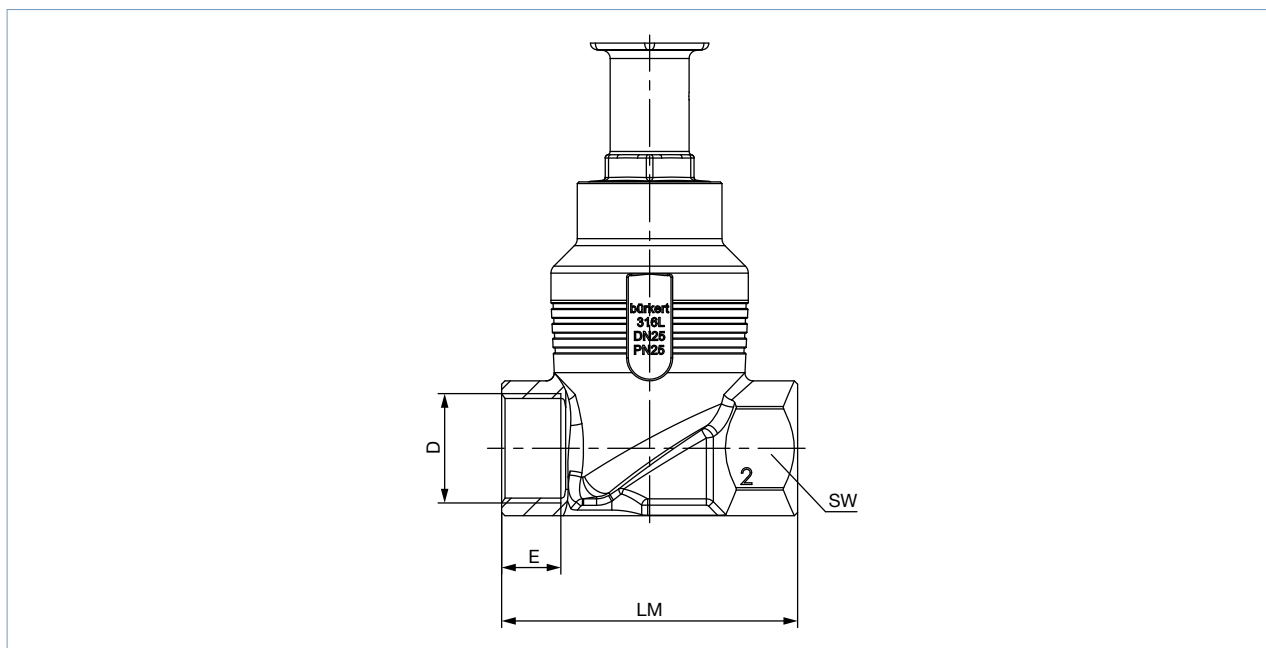
Nominal diameter (pipe)	DIN EN 1092 PN25 FTF 1 acc. to DIN EN 558-1							JIS 10K FTF 10 acc. to DIN EN 558-2						
	Ø DF	LF	Ø BF	AF	Ø D	A x α	Ø MF	Ø DF	LF	Ø BF	AF	Ø D	A x α	Ø MF
10	90	130	60	16	14	4 x 90°	13.6	-	-	-	-	-	-	-
15	95	130	65	16	14	4 x 90°	18.1	95	108	70	12	15	4 x 90°	18.1
20	105	150	75	18	14	4 x 90°	23.7	100	117	75	14	15	4 x 90°	23.7
25	115	160	85	18	14	4 x 90°	29.7	125	127	90	14	19	4 x 90°	29.7
32	140	180	100	18	18	4 x 90°	38.4	135	140	100	16	19	4 x 90°	38.4
40	150	200	110	18	18	4 x 90°	44.3	140	165	105	16	19	4 x 90°	44.3
50	165	230	125	20	18	4 x 90°	56.3	155	203	120	16	19	4 x 90°	56.3
65	185	290	145	22	18	8 x 45°	66.0	175	216	140	18	19	4 x 90°	71.5
80	200	310	160	24	18	8 x 45°	81.0	185	241	150	18	19	8 x 45°	84.3
100	235	350	190	24	22	8 x 45°	100.0	292	292	175	18	19	8 x 45°	109.1

Nominal diameter (pipe)	ANSI B 16.5 Class 150 FTF 37 acc. to DIN EN 558-2						
	NPS	Ø DF	LF	Ø BF	AF	Ø D	A x α
½	89	184	60.5	11.2	15.7	4 x 90°	15.7
¾	99	184	69.9	12.7	15.7	4 x 90°	20.8
1	108	184	79.2	14.2	15.7	4 x 90°	26.7
1½	127	222	98.6	17.5	15.7	4 x 90°	40.9
2	152	254	120.7	19.1	19.1	4 x 90°	52.6
2½	178	276	139.7	22.3	19.1	4 x 90°	62.7
3	190	298	152.5	23.9	19.1	4 x 90°	78.0
4	229	352	190.5	23.9	19.1	8 x 45°	102.4

### 6.3. Body with threaded connection

**Note:**

Dimensions in mm, unless otherwise stated

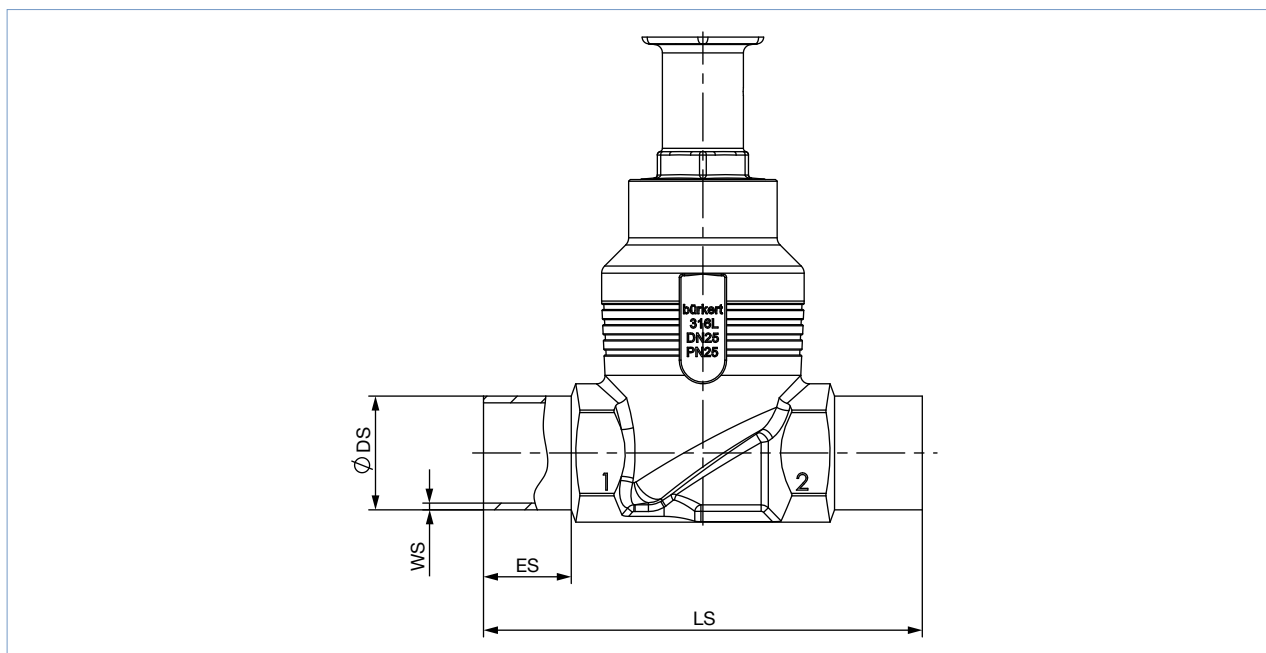


Nominal diameter (pipe)	G, Rc, NPT (EN ISO 228-1, ISO 7/1/DIN EN 10226-2, ASME B 1.20.1)				LM	SW
	D	E	[G]	[NPT]		
DN	NPS	[G]	[NPT]	[Rc]		
10	3/8	12	10.3	10.1	65	27
15	1/2	14	13.7	13.2	65	27
20	3/4	16	14	14.5	75	34
25	1	18	16.8	16.8	90	41
32	1 1/4	20	17.3	19.1	110	50
40	1 1/2	22	17.3	19.1	120	55
50	2	24	17.6	23.4	150	70
65	2 1/2	26	23.7	26.7	185	85
80	3	28	30.5	29.8	205	100
100	4	32	33	35.8	240	125

6.4. Body with welded connection

Note:

Dimensions in mm, unless otherwise stated



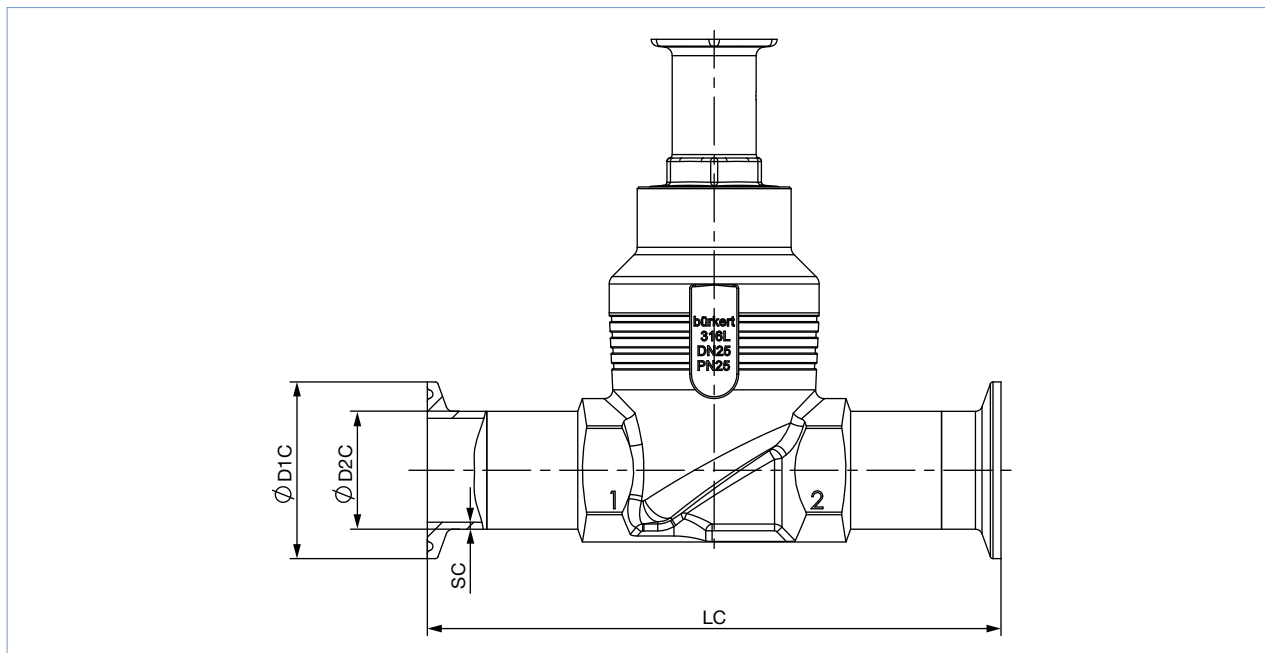
Nominal diameter (pipe) DN	ES	LS	EN ISO 1127 1/ISO 4200/DIN 11866 B		DIN 11850 2/DIN 11866 A/DIN EN 10357 A	
			Ø DS	WS	Ø DS	WS
10	20	90	17.2	1.6	13	1.5
15	20	90	21.3	1.6	19	1.5
20	20	100	26.9	1.6	23	1.5
25	26	130	33.7	2.0	29	1.5
32	26	140	42.4	2.0	35	1.5
40	26	150	48.3	2.0	41	1.5
50	26	175	60.3	2.0	53	1.5
65	26	210	76.1	2.3	70	2.0
80	26	230	88.9	2.3	85	2.0
100	26	260	114.3	2.6	104	2.0

Nominal diameter (pipe) NPS	ES	LS	ASME BPE/DIN 11866 C	
			Ø DS	WS
½	20	90	12.7	1.65
¾	20	90	19.05	1.65
1	20	100	25.4	1.65
1½	26	140	38.1	1.65
2	26	150	50.8	1.65
2½	26	175	63.5	1.65
3	26	210	76.2	1.65
4	26	260	101.6	2.11

6.5. Body with clamp connection

Note:

Dimensions in mm, unless otherwise stated



Nominal diameter (pipe)	Clamp: DIN 32676 A				Clamp: DIN 32676 B			
	Pipe: DIN 11850 2 DIN 11866 A DIN EN 10357 A				Pipe: EN ISO 1127 1 ISO 4200 DIN 11866 B			
DN	LC	Ø D2C	Ø D1C	SC	LC	Ø D2C	Ø D1C	SC
15	126	19	34	1.5	146	21.3	50.5	1.6
20	136	23	34	1.5	136	26.9	50.5	1.6
25	173	29	50.5	1.5	164	33.7	50.5	2.0
40	193	41	50.5	1.5	193	48.3	64.0	2.0
50	218	53	64	1.5	218	60.3	77.5	2.0

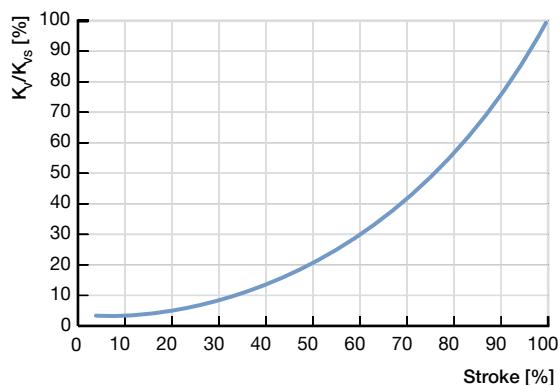
Nominal diameter (pipe)	Clamp: ASME BPE DIN 32676 C			
	Pipe: ASME BPE DIN 11866 C			
NPS	LC	Ø D2C	Ø D1C	SC
½	122	12.7	25.0	1.65
¾	126	19.05	25.0	1.65
1	126	25.4	50.5	1.65
1½	172	38.1	50.5	1.65
2	182	50.8	64.0	1.65
2½	231	63.5	77.5	1.65
3	265	76.2	91.0	1.65
4	315	101.6	119.0	2.11

## 7. Performance specifications

### 7.1. Fluidic data

#### Flow characteristics

- Flow characteristic acc. to DIN EN 60534-2-4
- $K_{VR}$  value at 5 % of stroke for  $DN > 10$  mm  
 $K_{VR}$  value at 10 % of stroke for  $DN \leq 10$  mm
- Actuator size 70 offers a better control quality compared to actuator size 50 and is therefore preferred ( $K_{VR}$  value = smallest  $K_V$  value, at which the tilt tolerance according to DIN EN 60534-2-4 is still maintained).



Equal percentage flow curve - detailed values please see below

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

##### Note:

- $K_V$  value [ $m^3/h$ ]: Measured with water acc. to DIN EN 60534-2-3
- See "7.2. Operating limits" on page 16.

Nominal diameter (pipe)		Seat size	Actuator size Ø	Operating pressure max. CF: A (Seat leakage class)			Characteristic curve (theoretical rangeability)	K <sub>v</sub> value at stroke [ $m^3/h$ ]						K <sub>vs</sub> value		
				Seat seal				5%	10%	30%	50%	70%	90%		[ $m^3/h$ ]	
DN	NPS		[mm]	Stainless steel [bar(g)]	PTFE [bar(g)]	PEEK [bar(g)]										
10	¾ <sup>(1)</sup>	3	50(D)	16(IV)	-	-	Linear (10:1)	-	0.003	0.015	0.037	0.065	0.090	0.10		
			70(M)	25(IV)				-	0.015	0.10	0.19	0.27	0.33	0.35		
		4	50(D)	16(IV)			Linear (10:1)	-	0.050	0.16	0.27	0.36	0.44	0.50		
			70(M)	25(IV)				-	0.12	0.48	0.76	0.98	1.1	1.2		
		6	50(D)	16(IV)			Linear (25:1)	-	0.007	0.045	0.16	0.41	1.1	1.25		
			70(M)	25(IV)				-	0.070	0.12	0.26	0.61	1.5	2.0		
		8	50(D)	16(IV)			16(VI)	10(VI)	Equal percentage (50:1)	-	0.11	0.19	0.48	1.0	2.3	2.7
			70(M)	25(IV)			25(VI)	25(VI)		-	0.11	0.19	0.48	1.0	2.3	2.7
		10	50(D)	16(IV)			16(VI)	10(VI)	Equal percentage (50:1)	-	0.11	0.19	0.48	1.0	2.3	2.7
			70(M)	25(IV)			25(VI)	25(VI)		-	0.11	0.19	0.48	1.0	2.3	2.7

Nominal diameter (pipe)		Seat size	Actuator size Ø	Operating pressure max. CF: A (Seat leakage class)			Characteristic curve (theoretical rangeability)	K <sub>v</sub> value at stroke [m³/h]						K <sub>vs</sub> value
				Seat seal				5%	10%	30%	50%	70%	90%	
DN	NPS	[mm]	Stainless steel [bar(g)]	PTFE [bar(g)]	PEEK [bar(g)]	[m³/h]								
15	½ <sup>1,3</sup>	3	50(D)	16(IV)	-	-	Linear (10:1)	-	0.003	0.015	0.037	0.065	0.090	0.10
			70(M)	25(IV)										
		4	50(D)	16(IV)			Linear (25:1)	-	0.015	0.10	0.19	0.27	0.33	0.35
			70(M)	25(IV)										
		4	50(D)	16(IV)			Linear (10:1)	-	0.050	0.16	0.27	0.36	0.44	0.50
			70(M)	25(IV)										
		6	50(D)	16(IV)			Linear (25:1)	-	0.12	0.48	0.76	0.98	1.1	1.2
			70(M)	25(IV)										
	6	50(D)	16(IV)	16(VI)	10(VI)	Equal percentage (50:1)	-	0.007	0.045	0.16	0.41	1.1	1.25	
			70(M)	25(IV)	25(VI)									25(VI)
		8	50(D)	16(IV)	16(VI)									10(VI)
			70(M)	25(IV)	25(VI)									25(VI)
		10	50(D)	16(IV)	16(VI)									10(VI)
			70(M)	25(IV)	25(VI)									25(VI)
	15	50(D)	16(IV)	16(VI)	10(VI)									
		70(M)	25(IV)	25(VI)	25(VI)									
20	¾ <sup>1,3</sup>	10	50(D)	16(IV)	16(VI)	10(VI)	0.11	0.12	0.20	0.52	1.2	2.6	3.2	
			70(M)	25(IV)	25(VI)	10(VI)								
		15	50(D)	16(IV)	16(VI)	10(VI)	0.14	0.17	0.35	0.80	1.8	4.0	5.2	
			70(M)	25(IV)	25(VI)	25(VI)								
		20	70(M)	16(IV)	16(VI)	10(VI)	0.20	0.25	0.45	1.1	2.4	5.2	7.1	
			90(N)	25(IV)	25(VI)	25(VI)								
25	1	15	50(D)	16(IV)	16(VI)	10(VI)	0.14	0.17	0.35	0.80	1.8	4.1	5.3	
			70(M)	25(IV)	25(VI)	25(VI)								
		20	70(M)	16(IV)	16(VI)	10(VI)	0.20	0.25	0.47	1.1	2.5	5.4	7.2	
			90(N)	25(IV)	25(VI)	25(VI)								
		25	70(M)	12(III)	12(VI)	7(VI)	0.35	0.38	1.0	2.2	5.1	9.4	12.0	
			90(N)	25(IV)	25(VI)	20(VI)								
32	1¼ <sup>1,3</sup>	20	90(N)	25(IV)	25(VI)	25(VI)	0.21	0.24	0.45	0.85	1.8	3.8	5.5	
			130(P)		25(VI)	25(VI)								
		25	90(N)		20(VI)	25(VI)	0.38	0.45	0.93	1.8	3.7	6.7	8.9	
			130(P)		25(VI)	25(VI)								
		32	90(N)	16(IV)	16(VI)	10(VI)	0.45	0.58	1.1	2.5	4.9	10.1	13.4	
			130(P)	25(IV)	25(VI)	20(VI)	0.48	0.60	1.3	3.1	6.8	14.0	17.8	
40	1½ <sup>1,3</sup>	25	90(N)	25(IV)	25(VI)	10(VI)	0.38	0.48	0.95	1.9	3.7	7.2	9.4	
			130(P)		25(VI)	25(VI)								
		32	90(N)	16(IV)	16(VI)	10(VI)	0.45	0.55	1.1	2.5	5.0	10.8	14.4	
			130(P)	25(IV)	25(VI)	20(VI)	0.48	0.60	1.3	3.2	6.9	15.0	20.0	
		40	90(N)	12(III)	12(VI)	7(VI)	0.55	0.67	1.5	3.2	6.5	13.6	17.5	
			130(P)	25(IV)	25(VI)	20(VI)	0.60	0.70	1.7	4.0	9.2	18.2	23.8	
50	2 <sup>1,3</sup>	32	90(N)	16(IV)	16(VI)	10(VI)	0.45	0.56	1.1	2.5	5.0	11.4	15.3	
			130(P)	25(20 <sup>2,3</sup> )(IV)	25(20 <sup>2,3</sup> )(VI)	20(VI)	0.48	0.60	1.3	3.2	6.9	16.0	21.0	
		40	90(N)	12(III)	12(VI)	7(VI)	0.57	0.68	1.5	3.2	6.4	13.8	18.0	
			130(P)	25(20 <sup>2,3</sup> )(IV)	25(20 <sup>2,3</sup> )(VI)	20(VI)	0.60	0.70	1.7	4.0	9.2	18.9	24.5	
		50	90(N)	7(III)	7(VI)	-	0.85	1.1	2.6	5.4	11.4	21.5	28.0	
			130(P)	25(20 <sup>2,3</sup> )(IV)	25(20 <sup>2,3</sup> )(VI)	20(VI)	0.90	1.1	2.9	6.8	15.5	29.5	37.0	
65	2½ <sup>1,3</sup>	40	130(P)	25(15 <sup>2,3</sup> )(IV)	25(15 <sup>2,3</sup> )(VI)	20(15 <sup>2,3</sup> )(VI)	0.65	0.75	1.8	4.3	10.4	22.0	29.0	
		50	130(P)				1.0	1.2	3.1	6.7	16.0	35.0	45.0	
		65	130(P)	16(15 <sup>2,3</sup> )(IV)	16(15 <sup>2,3</sup> )(VI)	10(VI)	1.6	2.0	5.0	13.5	33.0	56	65	
		225 (L)	25(15 <sup>2,3</sup> )(IV)	25 (15 <sup>2,3</sup> )(VI)	10 (VI)	1.1	1.4	3.2	8.0	18.5	46.5	62		

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Nominal diameter (pipe)		Seat size	Actuator size Ø	Operating pressure max. CF: A (Seat leakage class)			Characteristic curve (theoretical rangeability)	K <sub>v</sub> value at stroke [m³/h]						K <sub>vs</sub> value
				Stainless steel	PTFE	PEEK		5%	10%	30%	50%	70%	90%	
DN	NPS	[mm]	[bar(g)]	[bar(g)]	[bar(g)]		[m³/h]							
80	3 <sup>1)</sup>	50	130(P)	25(12,5 <sup>2)</sup> (IV)	25(12,5 <sup>2)</sup> (VI)	10(VI)	Equal percentage (50:1)	1.0	1.2	3.4	8.3	19.0	35.0	45.0
			65	130(P)	16(12,5 <sup>2)</sup> (IV)	16(12,5 <sup>2)</sup> (VI)		10(VI)	1.6	2.0	5.0	13.0	35.0	61
		80	225 (L)	25(12,5 <sup>2)</sup> (IV)	25(12,5 <sup>2)</sup> (VI)	10(VI)		1.4	1.7	3.8	8.2	19.5	50	70
			130(P)	10(III)	10(VI)	–		2.5	3.4	10.7	27.0	58	87	100
			225 (L)	12,5(IV)	12,5(VI)	7(VI)		2.1	2.6	7.0	16.0	40.0	83	100
			100	4	65	130(P)		16(10 <sup>2</sup> )(IV)	16(10 <sup>2</sup> )(VI)	10(VI)	1.4	1.8	5.0	15.0
225 (L)	25(10 <sup>2</sup> )(IV)	25(10 <sup>2</sup> )(VI)				10(VI)	1.4	1.7	3.8	8.3	20.0	51	75	
80	130(P)	10(III)			10(VI)	–	2.2	3.1	10.3	30.0	66	97	110	
	225 (L)	12,5(10 <sup>2</sup> )(IV)			12,5(10 <sup>2</sup> )(VI)	7(VI)	2.1	2.6	7.0	17.0	44.0	89	115	
	100	130(P)			6(III)	6(VI)	–	3.8	5.2	15.0	46.5	90	128	140
		225 (L)			10(IV)	10(VI)	–	3.2	3.9	9.0	20.5	51	118	140

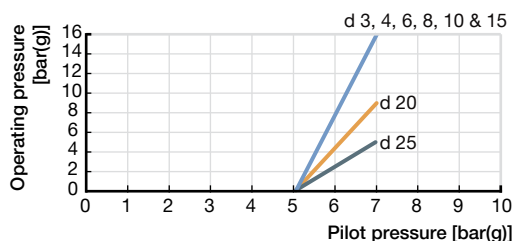
- 1.) Deviation for line connections according to ASME BPE: the next larger nominal connection size is used, e.g. NPS 1 instead of NPS ¾
- 2.) According to the Pressure Equipment Directive 97/23/EC for compressible fluids of group 1 (dangerous gases and vapours according to article 3 point 1.3 letter a, first indent)

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

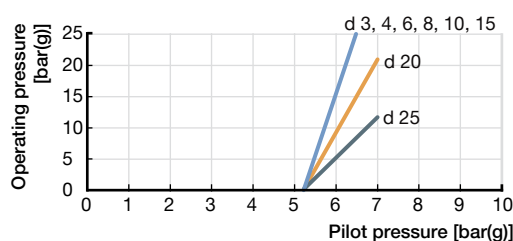
**Note:**

d = Seat size

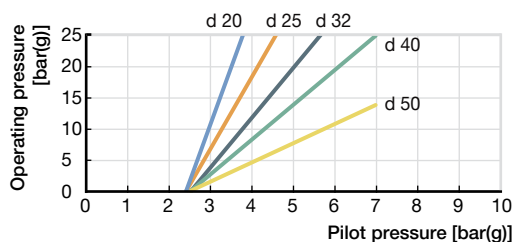
**Actuator size Ø: 50 mm**



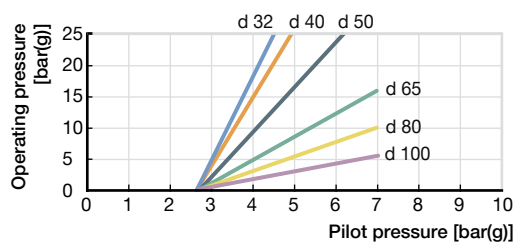
**Actuator size Ø: 70 mm**



**Actuator size Ø: 90 mm**



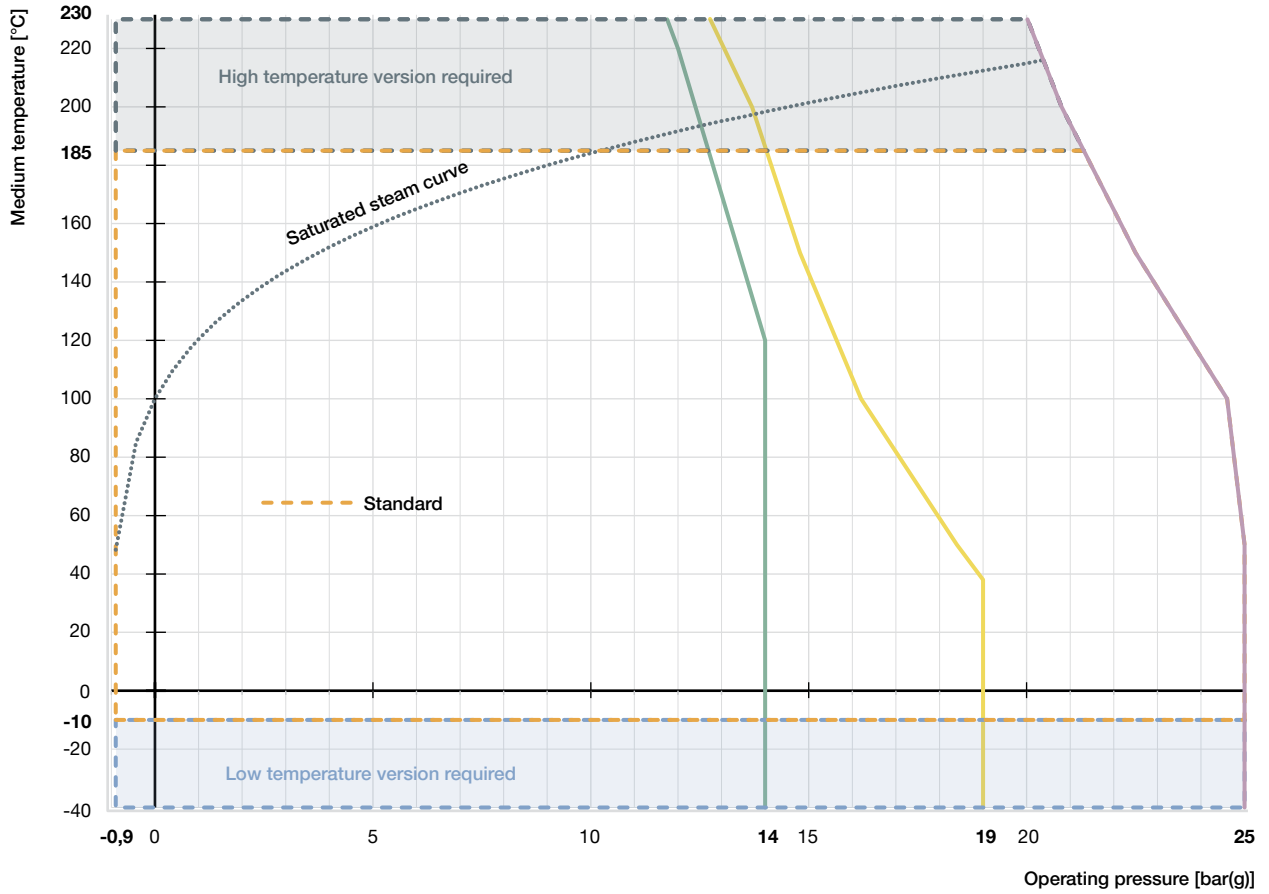
**Actuator size Ø: 130 mm**



## 7.2. 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.

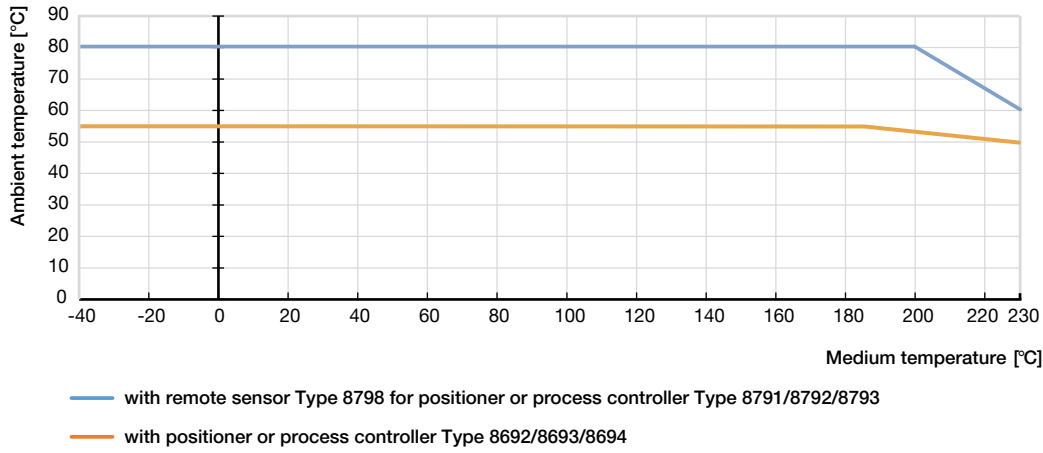


- Operating limits for PN25 acc. to DIN EN 12516-1
- Operating limits for flange 10K acc. to JIS B 2220
- Operating limits for Class 150 acc. to ASME B16.34
- ⋯ Saturated steam curve for water



Operating limits for ambient and medium temperature

ELEMENT Actuator



Operating limits seat seal

Tight sealing required	Leakage class (DIN EN 60534-4)	Medium temperature	Seat seal
No An additional shut-off valve is recommended	III / IV (metal seals)  Metal-sealed valves have larger leakages (0.1 % or 0.01 % of the nominal flow rate are permissible).  Metallic seals are impervious even under demanding process conditions.	-40...230 °C	Stainless steel
Yes An additional shut-off valve is often unnecessary.	VI (soft seals)  By using plastics as sealing material, the control valves can close tightly.  Their use is not recommended in cases of increased erosion due to demanding process conditions.	-40...130 °C (recommended for ≤ 130 °C)	PTFE
		-10...230 °C (recommended for > 130 °C)	PEEK

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### Operating limits for optional versions

#### High temperature version

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

#### Hot water version

For applications with hot water up to 200 °C; a special configuration of the spindle seal increases the lifetime significantly. It is recommended for water temperatures starting at 85 °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 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 materials in contact with the medium are tested for suitability with oxygen. Suitable for operating pressures up to 25 bar(g) and medium temperatures up to 60 °C.




## 8. Product accessories

Process controller TopControl	
Type 8693 ▶ Actuator size Ø 70/90/130 mm	Description
	<p>The intelligent process controller Type 8693 is designed for integrated mounting on pneumatic actuators from the process control valve series Type 23xx/2103 and especially for the requirements of hygienic process conditions. Using the TUNE-Functions, the process and positioner can be initialized automatically. Easy operation and selection of additional software functions as well as parameterization are carried out via the large graphic display and the membrane keypad. Device configuration and parameterization can also be conveniently carried out by the Bürkert Communicator software tool via a PC interface.</p> <p><b>Features</b></p> <ul style="list-style-type: none"> <li>• Contactless position sensor</li> <li>• Universal control system for single and double acting actuators</li> <li>• Highly dynamic actuating system without internal control air consumption in the balanced state</li> <li>• Integrated diagnostic functions for valve monitoring</li> <li>• Automatic initialization of the positioner and process controller using the TUNE-Function</li> <li>• Safeguarding in the event of failure of the electrical or pneumatic auxiliary power</li> <li>• PROFIBUS DP-V1, EtherNet/IP, PROFINET, Modbus TCP, Bürkert system bus (büS)</li> <li>• Compact and robust hygienic stainless steel design</li> </ul> <p><b>Customer benefits</b></p> <ul style="list-style-type: none"> <li>• Quick and easy commissioning</li> <li>• Intuitive and simple operation via graphic display with backlight and membrane keyboard</li> <li>• High system availability due to increased drive service life by means of spring chamber ventilation</li> <li>• Guaranteed reliability and predictable maintenance through valve monitoring and diagnostics</li> <li>• Easy maintenance and process monitoring</li> </ul>

Positioner TopControl	
<b>Type 8692 ▶</b> <b>Actuator size Ø 70/90/130 mm</b>	<b>Description</b>   <p>The intelligent electropneumatic positioner Type 8692 is designed for integrated attachment to pneumatic actuators of the process control valve series Type 23xx/2103 and especially for the requirements of hygienic process conditions. The positioner can be initialized automatically using the TUNE-Function. Easy operation and the selection of the extensive additional software functions as well as parameterization are carried out via the large graphic display and the membrane keypad. The device configuration and parameterization can also be conveniently carried out using the Bürkert Communicator software tool via a PC interface.</p> <p><b>Features</b></p> <ul style="list-style-type: none"> <li>• Contactless position sensor</li> <li>• Universal positioning system for single and double-acting actuators</li> <li>• Highly dynamic positioning system without internal control air consumption</li> <li>• Integrated diagnostic functions for valve monitoring</li> <li>• Automatic initialization of the positioner by means of the TUNE-Function</li> <li>• Safeguard in the event of failure of the electrical or pneumatic auxiliary power</li> <li>• PROFIBUS DP-V1, EtherNet/IP, PROFINET, Modbus TCP, Bürkert system bus (büS)</li> <li>• Compact and robust hygienic stainless steel design</li> </ul> <p><b>Customer benefits</b></p> <ul style="list-style-type: none"> <li>• Quick and easy commissioning</li> <li>• Intuitive and simple operation via graphic display with backlight and touch keypad</li> <li>• Guaranteed reliability and predictable maintenance through valve monitoring and diagnostics</li> <li>• A high degree of system availability due to increased drive service life by means of spring chamber ventilation</li> </ul>
<b>Positioner TopControl BASIC</b>	
<b>Type 8694 ▶</b> <b>Actuator size Ø 70/90/130 mm</b>	<b>Description</b>   <p>The compact positioner Type 8694/8696 is designed for integrated attachment to pneumatic actuators of the Type 23xx/2103 Process Control Valve series and especially for the requirements of hygienic process conditions. Operation and parameterization are performed via push buttons and DIP switches. The device configuration and parameterization can also be conveniently carried out using the Bürkert Communicator software tool via a PC interface.</p> <p><b>Features</b></p> <ul style="list-style-type: none"> <li>• Contactless position sensor</li> <li>• Universal positioning system for single and double-acting actuators</li> <li>• Ultra dynamic positioning system without internal control air consumption</li> <li>• AS-Interface, IO-Link, Bürkert system bus (büS) (only 8694)</li> </ul>
<b>Type 8696 ▶</b> <b>Actuator size Ø 50 mm</b>	<p>• Compact and robust hygienic stainless steel design</p> <p><b>Customer benefits</b></p> <ul style="list-style-type: none"> <li>• Simple and safe commissioning through Teach-In function</li> <li>• Minimum space requirement in the plant pipework for more flexibility in plant design</li> <li>• A high degree of system availability due to increased drive service life by means of spring chamber ventilation</li> </ul> 

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Process controller SideControl Remote	
<p>Type 8793 ▶ with Remote Sensor 8798 ▶ Actuator size Ø 70/90/130 mm</p>	<p><b>Description</b></p>
	<p>The intelligent digital positioner/process controller Type 8793 is designed for mounting on lift or swivel drives with standardization in accordance with IEC 534-6 or VDI/VDE 3845 and is designed for demanding control tasks. The version with remote position sensor Type 8798 is used to control Bürkert process control valves. It is operated via a backlit graphic display. The initialization of process and positioner can be done automatically by means of TUNE-Function. Here the type of controlled system is automatically recognized and the appropriate controller structure with the corresponding optimum parameter set is determined.</p> <p><b>Features</b></p> <ul style="list-style-type: none"> <li>• Universal control system for single and double acting actuators</li> <li>• Integrated diagnostic functions for valve monitoring</li> <li>• Automatic initialization of the position and process controller by means of TUNE-Function</li> <li>• Ultra dynamic actuating system without internal control air consumption.</li> <li>• Illuminated graphic display with touch screen</li> <li>• PROFIBUS DP-V1, EtherNet/IP, PROFINET, Modbus TCP, Bürkert system bus (büs)</li> <li>• Compact and robust design</li> <li>• Adaptation acc. to IEC 534-6 or VDI / VDE 3845 for lift and swivel drives or as remote version on Bürkert process valves</li> </ul> <p><b>Customer benefits</b></p> <ul style="list-style-type: none"> <li>• Quick and easy commissioning</li> <li>• Intuitive and simple operation via graphic display with backlight and touch keypad.</li> <li>• Guaranteed reliability and scheduled maintenance thanks to valve monitoring and diagnostics.</li> <li>• Easy maintenance and process monitoring</li> <li>• Long service life</li> </ul>

Positioner SideControl Remote	
<b>Positioner Type 8792 ▶ with Remote Sensor Type 8798 ▶ Actuator size Ø 70/90/130 mm</b>	<b>Description</b>  The intelligent digital position/process controller Type 8792 is designed for attachment to lift and swivel drives with standardization according to IEC 534-6 or VDI/VDE 3845 for demanding control tasks. The Type 8798 version with remote position sensor is used to control Bürkert process control valves. It is operated via a backlit graphic display. The initialization of process and positioner can be done automatically by means of TUNE-Function.  <b>Features</b> <ul style="list-style-type: none"> <li>• Illuminated graphic display with touch screen</li> <li>• Universal control system for single and double acting actuators</li> <li>• Ultra dynamic actuating system without internal control air consumption.</li> <li>• Integrated diagnostic functions for valve monitoring</li> <li>• PROFIBUS DP-V1, EtherNet/IP, PROFINET, Modbus TCP, Bürkert system bus (büS)</li> <li>• Compact and robust design</li> <li>• Adaptation acc. to IEC 534-6 or VDI / VDE 3845 for lift and swivel drives or as remote version on Bürkert process valves</li> </ul> <b>Customer benefits</b> <ul style="list-style-type: none"> <li>• Quick and easy commissioning</li> <li>• Intuitive and simple operation via backlit graphic display and touch keypad.</li> <li>• Guaranteed reliability and scheduled maintenance thanks to valve monitoring and diagnostics.</li> <li>• Long service life</li> </ul>
	
Positioner SideControl BASIC Remote	
<b>Positioner Type 8791 ▶ with Remote Sensor Type 8798 ▶ Actuator size Ø 70/90/130 mm</b>	<b>Description</b>  The positioner Type 8791 is designed for mounting on lift or swivel drives with standardization in accordance with IEC 534-6 or VDI/VDE 3845 designed for simple control tasks. The variant with the remote sensor Type 8798 is used to control Bürkert process control valves. All operating elements are located inside the housing.  <b>Features</b> <ul style="list-style-type: none"> <li>• Simple design</li> <li>• Universal control system for single and double acting actuators</li> <li>• Highly dynamic actuating system without internal control air consumption in the balanced state</li> <li>• Adaptation according to IEC 534-6 or VDI/VDE 3845 for lift and swivel drives or as remote version on Bürkert process valves</li> <li>• AS-Interface, IO-Link, Bürkert system bus (büS) (only for Positioner Type 8791 BASIC Remote)</li> </ul> <b>Customer benefits</b> <ul style="list-style-type: none"> <li>• Simple commissioning</li> <li>• Simple device for simple control tasks</li> <li>• Low energy consumption</li> </ul>
	
<b>Positioner IP20 Type 8791 ▶ with Remote Sensor Type 8798 ▶ Actuator size Ø 70/90/130 mm</b>	<b>Description</b>  The positioner Type 8791 is designed for mounting on lift or swivel drives with standardization in accordance with IEC 534-6 or VDI/VDE 3845 designed for simple control tasks. The variant with the remote sensor Type 8798 is used to control Bürkert process control valves. All operating elements are located inside the housing.  <b>Features</b> <ul style="list-style-type: none"> <li>• Simple design</li> <li>• Universal control system for single and double acting actuators</li> <li>• Highly dynamic actuating system without internal control air consumption in the balanced state</li> <li>• Adaptation according to IEC 534-6 or VDI/VDE 3845 for lift and swivel drives or as remote version on Bürkert process valves</li> <li>• AS-Interface, IO-Link, Bürkert system bus (büS) (only for Positioner Type 8791 BASIC Remote)</li> </ul> <b>Customer benefits</b> <ul style="list-style-type: none"> <li>• Simple commissioning</li> <li>• Simple device for simple control tasks</li> <li>• Low energy consumption</li> </ul>
	

## 9. Networking and combination with other Bürkert products

The **Type 2301 Globe Control Valve** can be combined with our extensive range of positioners and process controllers to form the **Continuous ELEMENT valve system, Type 8802-GD**.

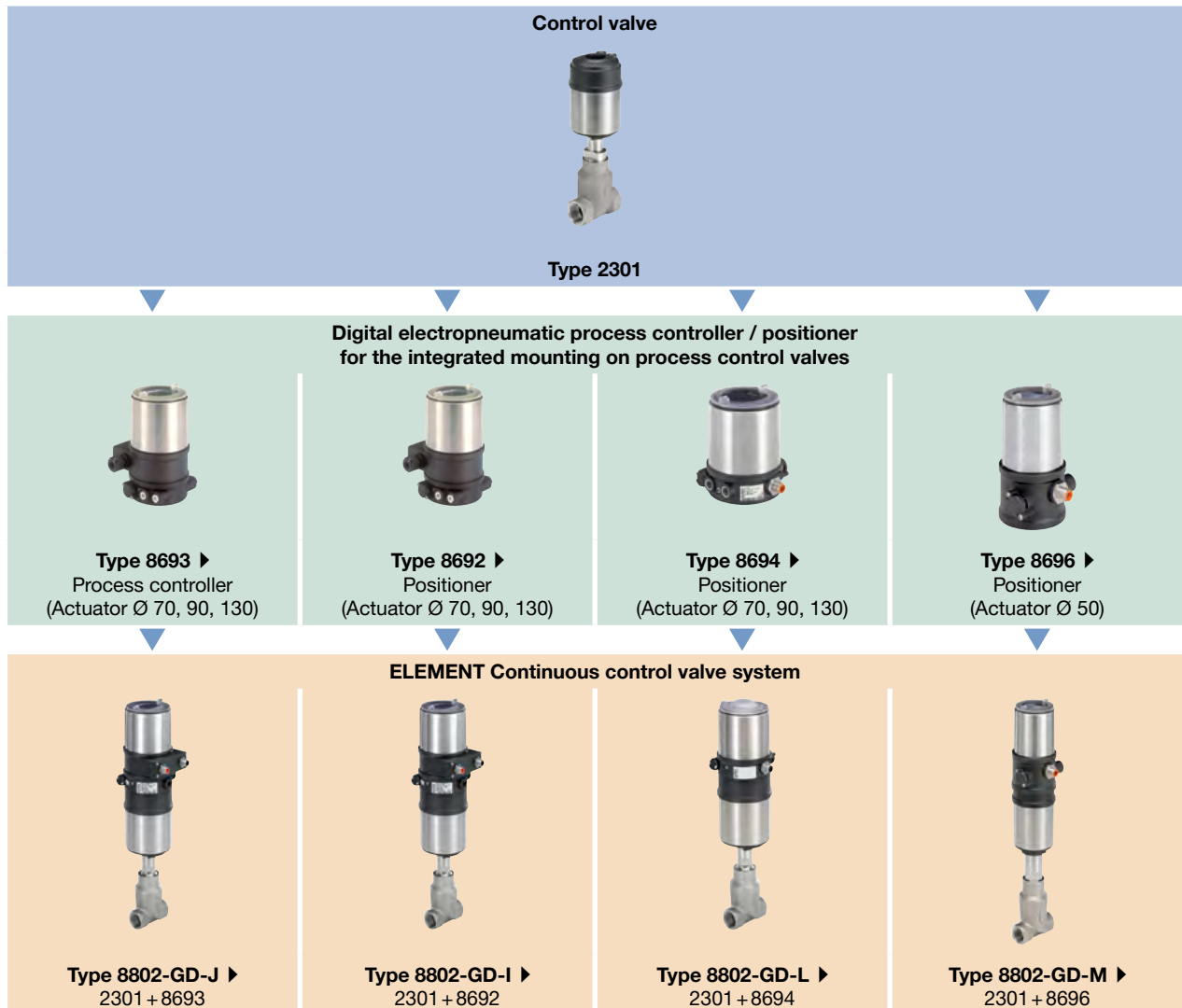
The range of the control unit consists of;

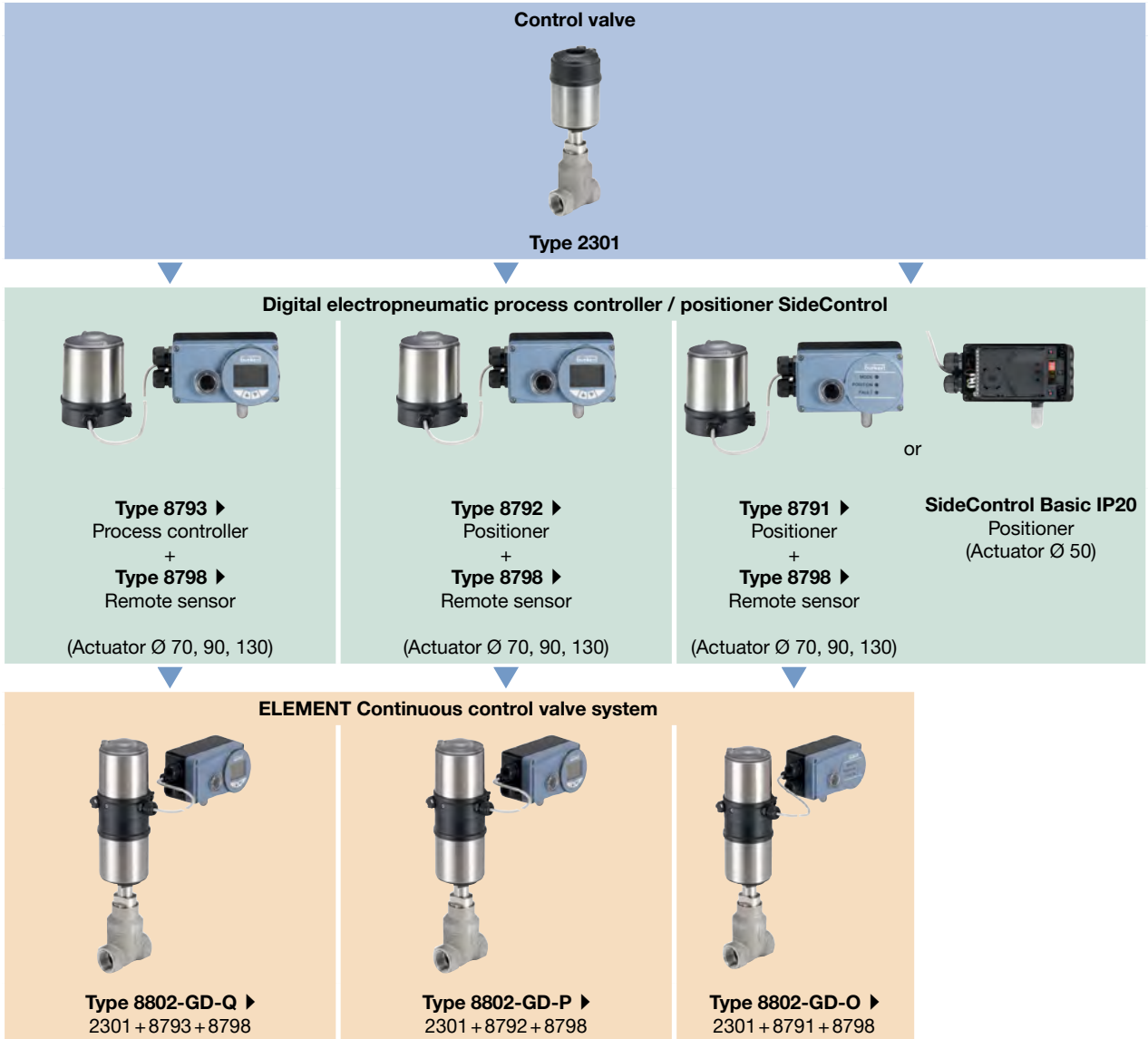
- A digital electropneumatic positioner/process controller **Type 8692/8693** (for valve actuator sizes Ø 70/90/130 mm)
- A digital electropneumatic positioner, basic **Type 8694** (for valve actuator size Ø 70/90/130 mm)
- A digital electropneumatic positioner, basic **Type 8696** (for valve actuator size Ø 50 mm)
- An electropneumatic positioner, SideControl **Type 8792** or an electropneumatic process controller, **Type 8793** (for valve actuator size Ø 70/90/130 mm) and a remote sensor, **Type 8798**
- An electropneumatic positioner, SideControl Basic **Type 8791** (for valve actuator size Ø 70/90/130 mm) and a remote sensor, **Type 8798**

**Note:**

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

**Example with threaded connection**





DTS 1000112693 EN Version: Z Status: RL (released | freigegeben | valide) printed: 10.03.2022

## 10. Ordering information

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



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### 10.2. Bürkert product filter



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### 10.3. Ordering chart flange connection

Valve with flow direction below seat

Nominal diameter (pipe)		Seat size	Actuator size Ø [mm]	K <sub>vs</sub> value [m <sup>3</sup> /h]	Article no.	
DN	NPS				Seat seal	
DIN EN 1092-1					PTFE	Stainless steel
10	¾	3	70(M)	0.1	-	On request
		4	70(M)	0.5	-	215207
		6	70(M)	1.25	-	215209
		8	70(M)	2.0	213985	215212
		10	70(M)	2.7	213989	215215
15	½	3	70(M)	0.1	-	233165
		4	70(M)	0.5	-	210529
		6	70(M)	1.25	-	215211
		8	70(M)	2.1	213987	215214
		10	70(M)	3.1	213991	215217
		15	70(M)	4.3	204932	205010
20	¾	10	70(M)	3.2	210530	215218
		15	70(M)	5.2	213993	214030
		20	70(M)	7.1	204935	205012
25	1	15	70(M)	5.3	213994	214031
		20	70(M)	7.2	213995	214032
		25	70(M)	12.0	204937	205014
			90(N)	12.0	242054	229421
32	1¼	25	90(N)	8.9	213997	210446
			130(P)	13.0	222634	222655
		32	90(N)	13.4	204939	205016
			130(P)	17.8	223597	223598
40	1½	32	90(N)	14.4	213999	214035
			130(P)	20.2	222636	222657
		40	90(N)	17.5	204941	205018
			130(P)	23.8	219791	222659
50	2	40	90(N)	18.0	214001	214037
			130(P)	24.6	222638	222660
		50	90(N)	28.0	204942	205019
			130(P)	37.0	214003	214039
65	2½	50	130(P)	45.0	214005	214040
		65	130(P)	65.0	217772	219618
80	3	65	130(P)	73.0	239545	239581
		80	130(P)	100.0	239540	239576
100	4	80	130(P)	110.0	239561	239597
		100	130(P)	140.0	239556	331125

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Nominal diameter (pipe)		Seat size	Actuator size Ø	K <sub>vs</sub> value	Article no.	
DN	NPS				Seat seal	
			[mm]	[m <sup>3</sup> /h]	PTFE	Stainless steel
<b>JIS 10K</b>						
15	½	3	70(M)	0.1	-	On request
		4	70(M)	0.5	-	215226
		6	70(M)	1.25	-	215227
		8	70(M)	2.1	215203	215228
		10	70(M)	3.1	213913	213911
		15	70(M)	4.3	204953	205030
20	¾	10	70(M)	3.2	215204	215229
		15	70(M)	5.2	213936	213933
		20	70(M)	7.1	204955	205032
25	1	15	70(M)	5.3	214020	214059
		20	70(M)	7.2	213930	213914
		25	70(M)	12.0	204957	205034
32	1¼	25	90(N)	12.0	242165	242199
			90(N)	8.9	213939	213937
		32	130(P)	13.0	222643	222665
			90(N)	13.4	213177	213178
40	1½	32	130(P)	17.8	222645	222667
			90(N)	14.4	213932	213931
		40	130(P)	20.2	222647	222668
			90(N)	17.5	204959	205037
50	2	40	130(P)	23.8	222649	222670
			90(N)	18.0	213941	213940
		50	130(P)	24.6	222650	222671
			90(N)	28.0	204960	205038
65	2½	50	130(P)	37.0	214023	214062
			130(P)	45.0	214024	214063
80	3	65	130(P)	65.0	219617	219620
			130(P)	73.0	239547	239584
100	4	80	130(P)	100.0	239542	239578
			130(P)	110.0	239563	239599
		100	130(P)	140.0	239558	239594

Nominal diameter (pipe)		Seat size	Actuator size Ø	K <sub>vs</sub> value	Article no.	
DN	NPS				Seat seal	
			[mm]	[m³/h]	PTFE	Stainless steel
<b>ANSI B 16.5</b>						
15	½	3	70(M)	0.1	-	On request
		4	70(M)	0.5	-	215219
		6	70(M)	1.25	-	215220
		8	70(M)	2.1	215198	215221
		10	70(M)	3.1	215199	215222
		15	70(M)	4.3	204944	205021
20	¾	10	70(M)	3.2	215200	215223
		15	70(M)	5.2	214009	214046
		20	70(M)	7.1	204946	205023
25	1	15	70(M)	5.3	214010	214047
		20	70(M)	7.2	214011	214048
		25	70(M)	12.0	204948	205025
			90(N)	12.0	464851	464367
40	1½	32	90(N)	14.4	215201	215224
			130(P)	20.2	463905	463913
		40	90(N)	17.5	204950	205027
			130(P)	23.8	463907	463915
50	2	40	90(N)	18.0	214013	214050
			130(P)	24.6	463908	463916
		50	90(N)	28.0	204951	205028
			130(P)	37.0	214015	214052
65	2½	50	130(P)	45.0	239537	239573
		65	130(P)	65.0	239535	239572
80	3	65	130(P)	73.0	239546	239582
		80	130(P)	100.0	239541	239577
100	4	80	130(P)	110.0	239562	239598
		100	130(P)	140.0	239557	239593

Further versions on request



**Approval**  
FDA, ATEX, (EG Gas Appliances Directive 2009/142/EG)



**Control function/Circuit function**  
B (normally open: NO)



**Process connection**  
Further housing connections

#### 10.4. Ordering chart threaded connection

Valve with flow direction below seat

Nominal diameter (pipe)		Seat size	Actuator size Ø	K <sub>vs</sub> value	Article no.	
[mm]	[inch]				Seat seal	
			[mm]	[m <sup>3</sup> /h]	PTFE	Stainless steel
<b>G thread, EN ISO 228-1</b>						
10	3/8	3	70(M)	0.1	-	284168 ☒
		4	70(M)	0.5	-	215238 ☒
		6	70(M)	1.25	-	215240 ☒
		8	70(M)	2.0	215233 ☒	215242 ☒
		10	70(M)	2.7	215235 ☒	215245 ☒
15	1/2	3	70(M)	0.1	-	227784 ☒
		4	70(M)	0.5	-	208843 ☒
		6	70(M)	1.25	-	215241 ☒
		8	70(M)	2.1	212964 ☒	215243 ☒
		10	70(M)	3.1	215236 ☒	215246 ☒
		15	70(M)	4.3	206432 ☒	213955 ☒
20	3/4	10	70(M)	3.2	215237 ☒	215247 ☒
		15	70(M)	5.2	214067 ☒	215248 ☒
		20	70(M)	7.1	206584 ☒	211239 ☒
25	1	15	70(M)	5.3	206588 ☒	210460 ☒
		20	70(M)	7.2	206586 ☒	210721 ☒
		25	70(M)	12.0	189145 ☒	210485 ☒
		90(N)	12.0	242203 ☒	242207 ☒	
32	1 1/4	25	90(N)	8.9	214070 ☒	210407 ☒
		130(P)	13.0	222677 ☒	222687 ☒	
		32	90(N)	13.4	210097 ☒	210458 ☒
		130(P)	17.8	223599 ☒	223600 ☒	
		40	90(N)	14.4	214072 ☒	214084 ☒
40	1 1/2	130(P)	20.2	222679 ☒	222689 ☒	
		40	90(N)	17.5	210098 ☒	207800 ☒
		130(P)	23.8	222681 ☒	222691 ☒	
		50	90(N)	18.0	214074 ☒	214086 ☒
50	2	130(P)	24.6	222682 ☒	222692 ☒	
		50	90(N)	28.0	210099 ☒	203693 ☒
		130(P)	37.0	214076 ☒	214088 ☒	
65	2 1/2	50	130(P)	45.0	214077 ☒	214089 ☒
		65	130(P)	65.0	219621 ☒	219622 ☒

Nominal diameter (pipe)		Seat size	Actuator size Ø	K <sub>vs</sub> value	Article no.	
[mm]	[inch]				Seat seal	
			[mm]	[m <sup>3</sup> /h]	PTFE	Stainless steel
<b>NPT thread, ISO 7/1/DIN EN 10226-2</b>						
10	3/8	3	70(M)	0.1	–	On request
		4	70(M)	0.5	–	220447
		6	70(M)	1.25	–	220450
		8	70(M)	2.0	220418	220453
		10	70(M)	2.7	220421	220457
15	1/2	3	70(M)	0.1	–	466159
		4	70(M)	0.5	–	220884
		6	70(M)	1.25	–	220452
		8	70(M)	2.1	220881	220455
		10	70(M)	3.1	220423	220459
		15	70(M)	4.3	220882	220886
20	3/4	10	70(M)	3.2	220425	220461
		15	70(M)	5.2	220427	220463
		20	70(M)	7.1	220430	220466
25	1	15	70(M)	5.3	220428	220464
		20	70(M)	7.2	220431	220467
		25	70(M)	12.0	220434	220470
		90(N)	12.0	464864	464867	
32	1 1/4	25	90(N)	8.9	220435	220471
			130(P)	13.0	463921	463931
		32	90(N)	13.4	220437	220473
			130(P)	17.8	463956	463957
40	1 1/2	32	90(N)	14.4	220438	463803
			130(P)	20.2	463923	463933
		40	90(N)	17.5	220440	220476
			130(P)	23.8	463925	463935
50	2	40	90(N)	18.0	220441	220477
			130(P)	24.6	463926	463936
		50	90(N)	28.0	220443	220479
			130(P)	37.0	220444	220480
65	2 1/2	50	130(P)	45.0	239536	239620
		65	130(P)	65.0	239534	239571

Nominal diameter (pipe)		Seat size	Actuator size Ø	K <sub>vs</sub> value	Article no. RC (ASME B 1.20.1)	
					Seat seal	
[mm]	[inch]		[mm]	[m³/h]	PTFE	Stainless steel
<b>Rc thread, ASME B 1.20.1</b>						
10	3/8	3	70(M)	0.1	-	On request
		4	70(M)	0.5	-	220513
		6	70(M)	1.25	-	220516
		8	70(M)	2.0	220484	220519
		10	70(M)	2.7	220487	220523
15	1/2	3	70(M)	0.1	-	233369
		4	70(M)	0.5	-	220891
		6	70(M)	1.25	-	220518
		8	70(M)	2.1	220888	220521
		10	70(M)	3.1	220489	220525
		15	70(M)	4.3	220889	220894
20	3/4	10	70(M)	3.2	220491	220527
		15	70(M)	5.2	220493	220529
		20	70(M)	7.1	220496	220532
25	1	15	70(M)	5.3	220494	220530
		20	70(M)	7.2	220497	220533
		25	70(M)	12.0	220500	220536
		90(N)	12.0	242377	242380	
32	1 1/4	25	90(N)	8.9	220501	220537
			130(P)	13.0	222740	222777
		32	90(N)	13.4	220503	220539
			130(P)	17.8	223605	223606
40	1 1/2	32	90(N)	14.4	220504	220540
			130(P)	20.2	222742	222763
		40	90(N)	17.5	220506	220542
			130(P)	23.8	222765	222767
50	2	40	90(N)	18.0	220507	220543
			130(P)	24.6	222768	222766
		50	90(N)	28.0	220509	220545
			130(P)	37.0	220510	220546
65	2 1/2	50	130(P)	45.0	220511	220547
		65	130(P)	65.0	220512	220548

Further versions on request



**Approval**  
FDA, ATEX, (EG Gas Appliances Directive 2009/142/EG)



**Control function/Circuit function**  
B (normally open: NO)



**Process connection**  
Further housing connections

### 10.5. Ordering chart welded connection




Valve with flow direction below seat

Nominal diameter (pipe)		Seat size	Actuator size Ø	K <sub>vs</sub> value	Connection MW x TW	Article no.	
[mm]	[inch]					Seat seal	
			[mm]	[m <sup>3</sup> /h]		PTFE	Stainless steel
<b>EN ISO 1127 1/ISO 4200/DIN 11866 B</b>							
10	⅜	3	70(M)	0.1	17.2 x 1.6	-	On request
		4	70(M)	0.5	17.2 x 1.6	-	On request
		6	70(M)	1.25	17.2 x 1.6	-	On request
		8	70(M)	2.0	17.2 x 1.6	On request	On request
		10	70(M)	2.7	17.2 x 1.6	On request	On request
15	½	3	70(M)	0.1	21.3 x 1.6	-	259240 <sup>☒</sup>
		4	70(M)	0.5	21.3 x 1.6	-	215254 <sup>☒</sup>
		6	70(M)	1.25	21.3 x 1.6	-	215255 <sup>☒</sup>
		8	70(M)	2.1	21.3 x 1.6	212392 <sup>☒</sup>	216407 <sup>☒</sup>
		10	70(M)	3.1	21.3 x 1.6	212393 <sup>☒</sup>	215873 <sup>☒</sup>
		15	70(M)	4.3	21.3 x 1.6	209571 <sup>☒</sup>	216409 <sup>☒</sup>
20	¾	15	70(M)	5.2	26.9 x 1.6	214094 <sup>☒</sup>	214132 <sup>☒</sup>
		20	70(M)	7.1	26.9 x 1.6	214096 <sup>☒</sup>	210696 <sup>☒</sup>
25	1	20	70(M)	7.2	33.7 x 2.0	214097 <sup>☒</sup>	214135 <sup>☒</sup>
		25	70(M)	12.0	33.7 x 2.0	209572 <sup>☒</sup>	214138 <sup>☒</sup>
32	1¼	25	90(N)	8.9	42.4 x 2.0	214101 <sup>☒</sup>	214139 <sup>☒</sup>
		32	90(N)	13.4	42.4 x 2.0	214103 <sup>☒</sup>	214141 <sup>☒</sup>
40	1½	32	90(N)	14.4	48.3 x 2.0	214104 <sup>☒</sup>	214142 <sup>☒</sup>
			130(P)	20.2	48.3 x 2.0	222700 <sup>☒</sup>	222721 <sup>☒</sup>
		40	90(N)	17.5	48.3 x 2.0	209440 <sup>☒</sup>	214144 <sup>☒</sup>
			130(P)	23.8	48.3 x 2.0	222702 <sup>☒</sup>	222723 <sup>☒</sup>
50	2	40	90(N)	18.0	60.3 x 2.0	210756 <sup>☒</sup>	213561 <sup>☒</sup>
			130(P)	24.6	60.3 x 2.0	222703 <sup>☒</sup>	222724 <sup>☒</sup>
		50	90(N)	28.0	60.3 x 2.0	214107 <sup>☒</sup>	214146 <sup>☒</sup>
			130(P)	37.0	60.3 x 2.0	214108 <sup>☒</sup>	214147 <sup>☒</sup>
65	2½	65	130(P)	65.0	76.1 x 2.3	219623 <sup>☒</sup>	219626 <sup>☒</sup>
80	3	80	130(P)	100.0	88.9 x 2.3	239543 <sup>☒</sup>	239579 <sup>☒</sup>
100	4	100	130(P)	140.0	114.3 x 2.6	239559 <sup>☒</sup>	239595 <sup>☒</sup>

Nominal diameter (pipe)		Seat size	Actuator size Ø	K <sub>vs</sub> value	Connection MW x TW	Article no.	
[mm]	[inch]					Seat seal	
			[mm]	[m <sup>3</sup> /h]		PTFE	Stainless steel
<b>DIN 11850 2 / DIN 11866 A / DIN EN 10357 A</b>							
10	⅜	3	70(M)	0.1	13.0 x 1.5	-	250658 ☒
		4	70(M)	0.5	13.0 x 1.5	-	284171 ☒
		6	70(M)	1.25	13.0 x 1.5	-	284177 ☒
		8	70(M)	2.0	13.0 x 1.5	On request	284179 ☒
		10	70(M)	2.7	13.0 x 1.5	257412 ☒	208553 ☒
15	½	3	70(M)	0.1	19.0 x 1.5	-	225130 ☒
		4	70(M)	0.5	19.0 x 1.5	-	215257 ☒
		6	70(M)	1.25	19.0 x 1.5	-	215258 ☒
		8	70(M)	2.1	19.0 x 1.5	215250 ☒	215911 ☒
		10	70(M)	3.1	19.0 x 1.5	215251 ☒	215913 ☒
		15	70(M)	4.3	19.0 x 1.5	215253 ☒	209173 ☒
20	¾	15	70(M)	5.2	23.0 x 1.5	214113 ☒	208555 ☒
		20	70(M)	7.1	23.0 x 1.5	211937 ☒	211953 ☒
25	1	20	70(M)	7.2	29.0 x 1.5	214116 ☒	214154 ☒
		25	70(M)	12.0	29.0 x 1.5	209384 ☒	209089 ☒
32	1¼	25	90(N)	8.9	35.0 x 1.5	214119 ☒	214156 ☒
		32	90(N)	13.4	35.0 x 1.5	211965 ☒	209181 ☒
40	1½	32	90(N)	14.4	41.0 x 1.5	214121 ☒	213487 ☒
			130(P)	20.2	41.0 x 1.5	222711 ☒	222732 ☒
		40	90(N)	17.5	41.0 x 1.5	211967 ☒	209110 ☒
			130(P)	23.8	41.0 x 1.5	222713 ☒	222734 ☒
50	2	40	90(N)	18.0	53.0 x 1.5	214123 ☒	213411 ☒
			130(P)	24.6	53.0 x 1.5	222714 ☒	222735 ☒
		50	90(N)	28.0	53.0 x 1.5	211968 ☒	209185 ☒
			130(P)	37.0	53.0 x 1.5	214125 ☒	214159 ☒
65	2½	65	130(P)	65.0	70.0 x 2.0	219625 ☒	219628 ☒
80	3	80	130(P)	100.0	85.0 x 2.0	239544 ☒	239580 ☒
100	4	100	130(P)	140.0	104.0 x 2.0	239560 ☒	239596 ☒



Nominal diameter (pipe)	Seat size	Actuator size Ø	Operating pressure	K <sub>vs</sub> value	Connection Ø DS x WS	Article no.	
						Seat seal	
NPS		[mm]		[m <sup>3</sup> /h]		PTFE (VI)	Stainless steel (IV)
<b>ASME BPE/DIN 11866 C</b>							
½	3	70(M)	25(IV)	0.10 (lin)	12.7 x 1.65	-	353371
	4	70(M)	25(IV)	0.50 (lin)	12.7 x 1.65	-	226776
	6	70(M)	25(IV)	1.2 (lin)	12.7 x 1.65	On request	316765
	6	70(M)	25(IV)	1.25	12.7 x 1.65	226651	20001538
	8	70(M)	25(IV)	2.0	12.7 x 1.65	379940	216879
	10	70(M)	25(IV)	2.7	12.7 x 1.65	225463	313806
¾	10	70(M)	25(IV)	3.1	19.05 x 1.65	241143	On request
	15	70(M)	25(IV)	4.3	19.05 x 1.65	335739	335741
1	10	70(M)	25(IV)	3.2	25.4 x 1.65	241633	242576
	15	70(M)	25(IV)	5.2	25.4 x 1.65	226329	242579
	20	70(M)	16(IV)	7.1	25.4 x 1.65	230405	216902
1½	32	90(N)	16(IV)	13.4	38.1 x 1.65	230409	242587
		130(P)	25(IV)	17.8	38.1 x 1.65	242557	242589
2	40	90(N)	12(IV)	17.5	50.8 x 1.65	211655	242592
		130(P)	25(IV)	23.8	50.8 x 1.65	242561	242593
2½	50	130(P)	25(20*)(IV)	37.0	63.5 x 1.65	335735	335737
3	65	130(P)	16(15*)(IV)	65	76.2 x 1.65	268682	350667
4	80	130(P)	10(IV)	110	101.6 x 2.11	298386	On request
	100	130(P)	6(IV)	140	101.6 x 2.11	275103	289251

Further versions on request	
 <b>Approval</b> FDA, ATEX, (EG Gas Appliances Directive 2009/142/EG)	 <b>Control function/Circuit function</b> B (normally open: NO)
 <b>Process connection</b> Further housing connections	

### 10.6. Ordering chart clamp connection

Valve with flow direction below seat

Nominal diameter (pipe)		Seat size	Actuator size Ø	K <sub>vs</sub> value	Connection MC x TC, CC	Article no.	
[mm]	[inch]					Seat seal	
			[mm]	[m <sup>3</sup> /h]		PTFE	Stainless steel
<b>DIN 32676 A</b>							
15		15	70(M)	4.3	19 x 1.5, 34	222593	282208
20	¾	20	70(M)	7.1	23 x 1.5, 34	225647	282209
25	1	25	90(N)	12.0	29 x 1.5, 50.5	222594	282210
32	1¼	32	90(N)	13.4	35 x 1.5, 50.5	240415	282211
40	1½	40	130(P)	23.8	41 x 1.5, 50.5	240351	282212
50	2	50	130(P)	37.0	53 x 1.5, 64	282258	282259
<b>DIN 32676 B</b>							
15	½	15	70(M)	4.3	21.3 x 1.6, 50.5	273974	282213
20	¾	20	70(M)	7.1	26.9 x 1.6, 50.5	209438	282214
25	1	25	90(N)	12.0	33.7 x 2.0, 50.5	241115	282215
40	1½	40	130(P)	23.8	48.3 x 2.0, 64.0	209880	284181
50	2	50	130(P)	37.0	60.3 x 2.0, 77.5	282261	282263

Further versions on request	
<b>Approval</b> FDA, ATEX, (EG Gas Appliances Directive 2009/142/EG)	<b>Control function/Circuit function</b> B (normally open: NO)
<b>Process connection</b> Further housing connections	

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## Product Enquiry Form - Pneumatic Control Valves

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

Please fill in the required fields!  \*

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

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

Delivery	
Quantity	Required delivery date

Operating data	
Function <small>(Function of the control valve in the process / process description)</small>	
Pipeline	DN PN
Operating medium	
Type of medium	Fluid Steam Gas

Fluidic data	Largest flow rate 1. Operating point	Average flow rate 2. Operating point	Lowest flow rate 3. Operating point	Unit
Flow rate				
Temperature $t_1$				
Inlet pressure $p_1$ <small>absolute (a) relative (g)</small>				
Outlet pressure $p_2$ <small>absolute (a) relative (g)</small>				
Steam pressure $p_v$				
Viscosity ( $\nu / \eta$ )				
Density ( $\rho$ )				
Max. permitted sonic pressure level ( $L_p$ )				

Valve body				
Construction	Angle seat valve		Globe valve	
DN / Nominal pressure	DN		PN	
Seat size				
Flow coefficient	$K_{vs}$	$m^3/h$	$C_v$	GPM(US)
Seat seal	Metallic		Soft seal PTFE Soft seal PEEK	
Connection	Flange	DIN EN 1092-1		ANSI B16.5 JIS 10K
	Thread	G		NPT RC
	Weld	DIN EN ISO 1127 / ISO 4200		DIN 11850 2 / DIN 11866 A ASME BPE
	Clamp	ASME BPE		DIN 32676 A (tube ISO 4200) DIN 32676 B (tube DIN 11850)
	Other			



Valve data		
<b>Circuit Function</b>	A: Normally closed	B: Normally open

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
For potable water according to KTW/W270
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)



Additional Requirements / Comment

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

For actuator size $\varnothing 70/\varnothing 90/\varnothing 130$ mm			
Process Controller TopControl Type 8693 ▶		Positioner TopControl Type 8692 ▶	
	<ul style="list-style-type: none"> <li>Intelligent digital positioners and process controllers with integrated PID controller for accurate process control</li> <li>Lighted graphic display with membrane keypad</li> <li>Tune function for automatic start-up</li> <li>Field bus communication</li> <li>Diagnostic functions</li> </ul>		<ul style="list-style-type: none"> <li>Digital positioner without sensor input</li> <li>Lighted graphic display with membrane keypad</li> <li>Tune function for automatic start-up</li> <li>Field bus communication</li> <li>Diagnostic functions</li> </ul>
<b>Pneumatic function</b>		<b>Electrical connection</b>	
Single-acting	Double-acting	Cable gland Without	M12 Multipole connection
<b>Digital Communication</b>		<b>Approvals</b>	
PROFIBUS DP-V1	EtherNet/IP	ATEX cat. 3GD, IECEx	Without
PROFINET	Bürkert Systembus (būs) <sup>1.)</sup>		
Modbus TCP	Without		
<b>Analogue feedback</b>		<b>Digital outputs and diagnostics</b>	
0/4...20 mA	0/4...20 mA + 2 binary outputs	Yes	No

1.) Based on CANopen

For actuator size $\varnothing 70/\varnothing 90/\varnothing 130$ mm			For actuator size $\varnothing 50$ mm	
Positioner TopControl BASIC Type 8694 ▶			Positioner TopControl BASIC Type 8696 ▶	
	<ul style="list-style-type: none"> <li>Status LED and DIP switches</li> <li>Tune-function for automatic start-up</li> <li>Positioning system for single-acting actuators</li> <li>Field bus communication</li> </ul>			<ul style="list-style-type: none"> <li>Status LED and DIP switches</li> <li>Tune-function for automatic start-up</li> <li>Positioning system for single-acting actuators</li> </ul>
<b>Pneumatic function</b>			<b>Electrical connection</b>	
Single-acting			Cable gland <sup>1.)</sup> Without	M12 Multipole connection
<b>Digital Communication</b>			<b>Approvals</b>	
AS-Interface <sup>1.)</sup>	IO-Link	Bürkert Systembus (būs) <sup>2.)</sup>	ATEX cat. 3GD, IECEx	Without
Without				
<b>Analogue feedback</b>				
Yes			No	



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

2.) Based on CANopen

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



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

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

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

2.) Based on CANopen

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

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

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

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

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