



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

	Type 8692	▶
Digital electropneumatic positioner for integrated mounting on process control valves		
	Type 8694	▶
Digital electropneumatic positioner for integrated mounting on process control valves		
	Type 8696	▶
Digital electropneumatic positioner for integrated mounting on process control valves		
	Type 8693	▶
Digital electropneumatic process controller for integrated mounting on process control valves		
	Type 8792	▶
Digital electropneumatic positioner SideCONTROL		
	Type 8791	▶
Digital electropneumatic positioner SideCONTROL		
	Type 8793	▶
Digital electropneumatic Process Controller SideCONTROL		
	Type 8802	▶
ELEMENT continuous control valve systems – overview		

Type description

In line with Burkert'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

Product properties

Dimensions	Further information can be found in chapter " 6. Dimensions " on page 10.
Material	Further information can be found in chapter " 5. Materials " on page 7.
Design	Globe control valve
Nominal diameter (port connection)	DN 10...DN 100, NPS 3/8...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)

Performance data

Operating pressure	0...25 bar(g), 40 bar(g) on request (see " 7.1. Fluidic data " on page 17) Vacuum version...-0.9 bar(g) (option)
Nominal pressure	PN 25/PN 40 (DIN EN 1333), Class 150 (DIN EN 1759)
Seat leakage	Leakage class III and IV (DIN EN 60534 - 4:2006) for stainless steel Leakage class VI for PTFE and PEEK (see " 7.1. Fluidic data " on page 17)
K _v value	0.1 m ³ /h...140 m ³ /h (see " 7.1. Fluidic data " on page 17)
Operating characteristic	Equal percentage, linear (others on request)
Theoretical rangeability	...50:1

Medium data

Medium	Steam, water, neutral gases, alcohols, oils, fuels, hydraulic fluids, salt solutions, organic solvents, oxygen and fuel gases of families I, II and III in accordance with the Gas Appliances Regulation (EU) 2016/426, Hydrogen (optional), lyes (optional)
Medium temperature	- 40 °C...+ 230 °C (see " 7.2. Operating limits " on page 22)
Viscosity	Max. 600 mm ² /s
Control medium	Air, neutral gases

Process/Port connection & communication

Port connection²⁾

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 / 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

Approvals and conformities

Further information can be found in chapter "[4. Approvals and conformities](#)" on page 6

Environment and installation

Ambient temperature	- 10...+ 80 °C (with positioner or process controller Type 8791/8792/8793) - 10...+ 55 °C (with positioner or process controller Type 8692/8693/8694) (see " 7.2. Operating limits " on page 22)
Degree of protection	IP65/67
Installation position	As required, preferably with actuator upright

1.) Others are available on request.

2. Product versions

2.1. ELEMENT

Product properties	
Nominal diameter (port connection)	DN 10...DN 100
Actuator size	50 mm (D), 70 mm (M), 90 mm (N), 130 mm (P)
Performance data	
Pilot pressure (CF A)	5.6...7 bar(g) for control function B (see "Pilot pressure diagram with flow direction below seat (control function B)" on page 21)

2.2. Stainless steel drive guide for higher drive forces

Product properties	
Nominal diameter (port connection)	DN 65...DN 100
Actuator size	225 mm (L)
Performance data	
Pilot pressure (CF A)	DN 65, 3.7 bar(g)...7 bar(g) DN 80, DN 100, 5.5 bar(g)...7 bar(g) 5 bar(g) for control function B (see "Pilot pressure diagram with flow direction below seat (control function B)" on page 21)

3. Control functions

Symbol	Description
Flow direction below seat for fluids, steam and gases	
	Control function A (CF A) Pneumatically operated 2/2-way control valve Flow direction below seat Normally closed by spring force
	Control function B (CF B) Pneumatically operated 2/2-way control valve Flow direction below seat Normally opened by spring force

4. Approvals and conformities

4.1. 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.

4.2. 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

4.3. 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.

4.4. Explosion protection

Approval	Description																
 	Optional: Explosion protection (valid for the variable code PX51) As a category 2 device suitable for zone 1/21 and zone 2/22. ATEX: EPS 18 ATEX 2 008 X II 2G Ex h IIC T4...T2 Gb II 2D Ex h IIIC T135 °C...T300 °C Db IECEx: IECEx EPS 18.0007X Ex h IIC T4...T2 Gb Ex h IIIC T135 °C...T300 °C Db <table border="1"> <tr> <td>Temperature class</td> <td>T2</td> <td>T3</td> <td>T4</td> </tr> <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> </table> <p>Note: 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														

4.5. Drinking water

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

4.6. Foods and beverages/Hygiene

Conformity	Description
FDA	FDA – Code of Federal Regulations (valid for the variable code PL02) 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.
	EC Regulation 1935/2004 of the European Parliament and of the Council (valid for the variable code PL01, PL02) All wetted materials are compliant with EC Regulation 1935/2004/EC according to the manufacturer's declaration.
	China food GB Standards of the People's Republic of China (valid for the variable code PL10) All wetted materials are compliant with the requirement of China food GB Standards according to the manufacturer's declaration.

4.7. Others

Oxygen

Conformity	Description
O_2	Optional: Suitability for oxygen (valid for the variable code NL02) The products are suitable for use with gaseous oxygen, according to the manufacturer's declaration.

Fuel gases

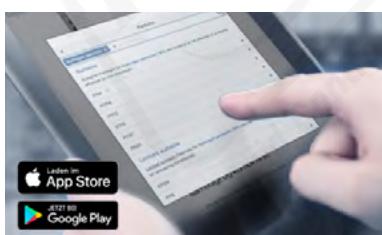
Conformity	Description
	Fuel gases (valid for the variable code PO19, PO20) The products comply with: <ul style="list-style-type: none"> Regulation (EU) 2016/426 – Appliances burning gaseous fuels and DVGW DIN EN 161 (Automatic shut-off valves for gas burners and gas appliances) and DIN EN 16678, Class 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)

Hydrogen

Conformity	Description
H_2	Optional: Suitability for hydrogen (valid for the variable code NG18) The products are suitable for use with gaseous hydrogen, according to the manufacturer's declaration.

5. Materials

5.1. Burkert resistApp



Burkert 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.

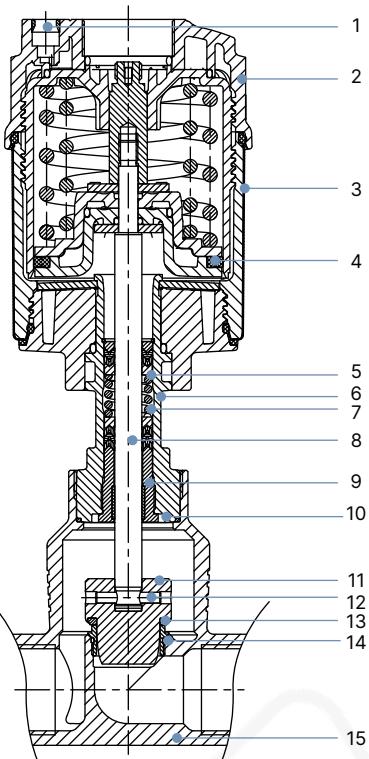
[Start chemical resistance check](#)

5.2. Material specifications

ELEMENT

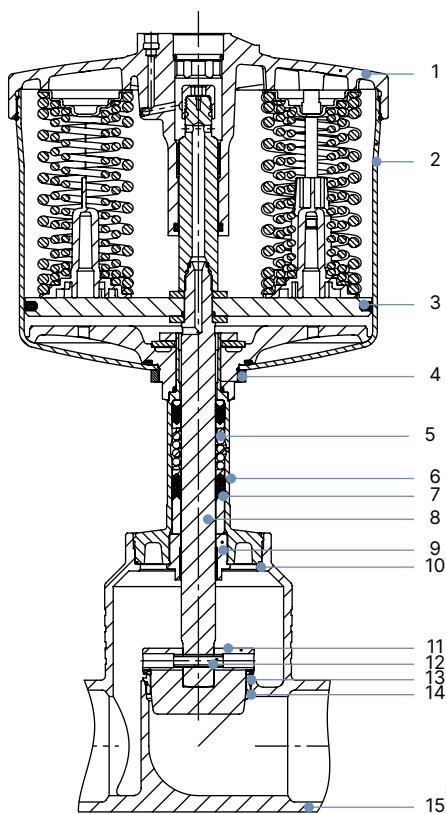
Note:

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



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 CF3M
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 (optionally hardened)
12	Spring straight pin	Stainless steel 1.4310
13	Seat seal	Stainless steel 1.4571 (optionally hardened), PTFE or PEEK
14	Valve seat with o-Ring	Stainless steel 1.4571, EPDM
15	Valve body	Stainless steel 316L / CF3M

Stainless steel for higher drive forces



No.	Element	Material
1	Cover	Stainless steel 1.4308
2	Actuator	Stainless steel 1.4404
3	Piston seal	FKM
4	Nut	Stainless steel 1.4301
5	Spring	Stainless steel 1.4310
6	Pipe	Stainless steel CF3M
7	Spindle sealing	PTFE V-rings (filled), with spring compensation
8	Spindle	Stainless steel 1.4021
9	Spindle guide	Stainless steel 1.4404 (316L) / PTFE filled
10	Body seal	Graphite or PTFE
11	Control cone	Stainless steel 1.4571 (optionally hardened)
12	Spring straight pin	Stainless steel 1.4310
13	Seat seal	Stainless steel 1.4571 (optionally hardened), PTFE or PEEK
14	Valve seat with o-ring	Stainless steel 1.4571, EPDM
15	Valve body	Stainless steel 316L / CF3M

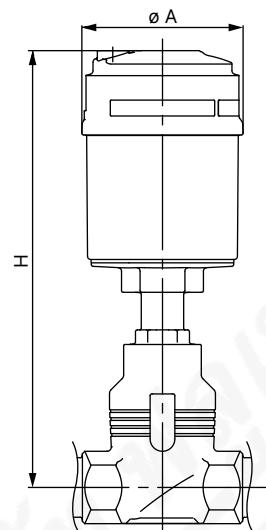
6. Dimensions

6.1. Actuator

Note:

Dimensions in mm

Continuous ELEMENT Type 2301 valve



Nominal diameter (port connection)		Actuator size Ø	Ø A	H
DN	NPS			
10	$\frac{3}{8}$	50 (D)	64.5	226
		70 (M)	91	239
15	$\frac{1}{2}$	50 (D)	64.5	226
		70 (M)	91	239
20	$\frac{3}{4}$	50 (D)	64.5	232
		70 (M)	91	245
		90 (N)	120	307
25	1	50 (D)	64.5	235
		70 (M)	91	248
		90 (N)	120	301
32	$1\frac{1}{4}$	90 (N)	120	329
		130 (P)	159	381
40	$1\frac{1}{2}$	90 (N)	120	334
		130 (P)	159	386
50	2	90 (N)	120	340
		130 (P)	159	392
65	$2\frac{1}{2}$	130 (P)	159	446
		225 (L)	245	460
80	3	130 (P)	159	454
		225 (L)	245	467
100	4	130 (P)	159	464
		225 (L)	245	477

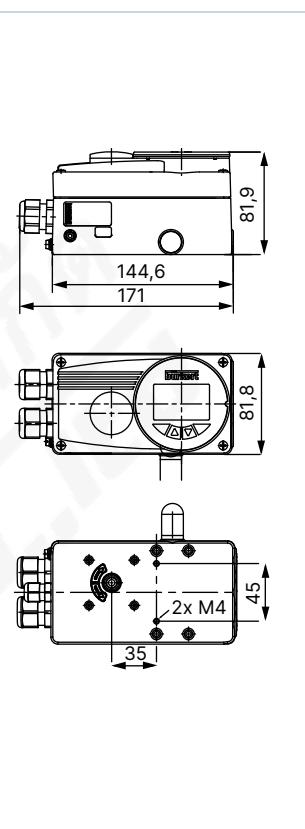
Valve system Continuous ELEMENT**Note:**

- Dimensions in mm
- Please note actuator size A in table “**6.1. Actuator**” on page 10

With positioner TopControl			With remote positioner SideControl
Type 8692 or with process controller TopControl	Type 8694	Type 8696	Type 8792 or with remote process controller SideControl
Type 8693			Type 8793

Type 2301

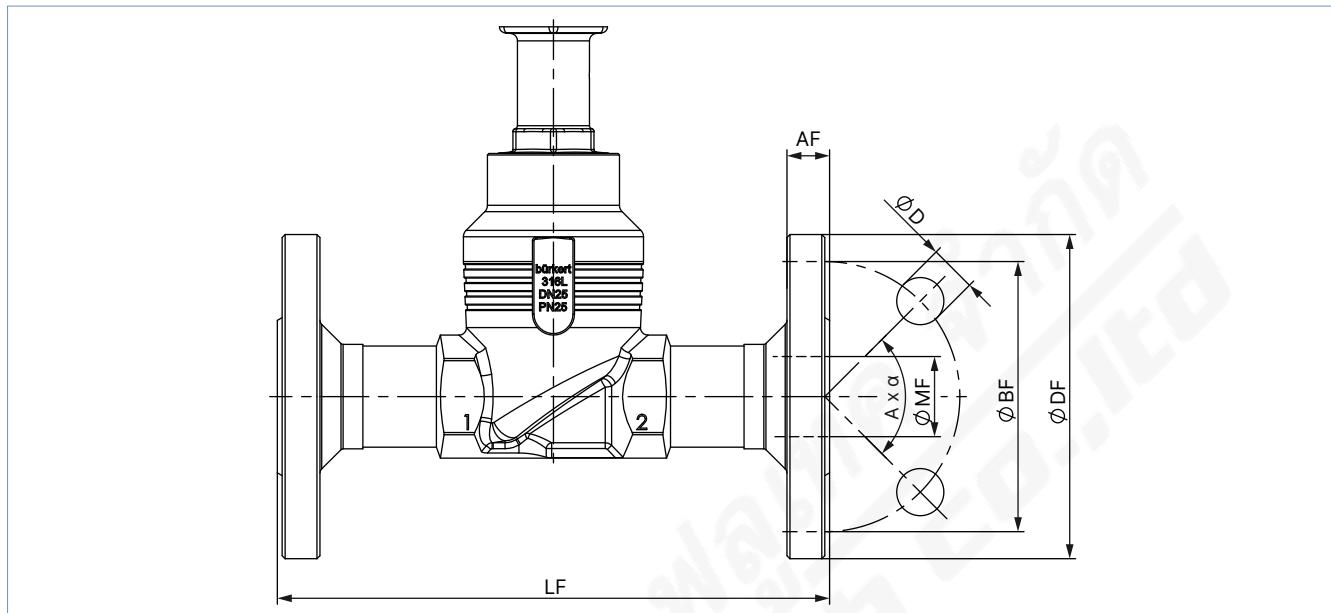
Nominal diameter (port connection)		Actuator size Ø	HS with		
DN	NPS		Type 8692 or Type 8693	Type 8694 or Type 8696	Type 8792 or Type 8793
10	$\frac{3}{8}$	50 (D)	–	329	–
		70 (M)	383	342	342
15	$\frac{1}{2}$	50 (D)	–	329	–
		70 (M)	383	342	342
20	$\frac{3}{4}$	50 (D)	–	335	–
		70 (M)	389	348	348
		90 (N)	449	405	413
25	1	50 (D)	–	342	–
		70 (M)	392	351	351
		90 (N)	445	404	404
32	$1\frac{1}{4}$	90 (N)	473	432	432
		130 (P)	525	484	484
40	$1\frac{1}{2}$	90 (N)	478	437	437
		130 (P)	530	489	489
50	2	90 (N)	484	443	443
		130 (P)	536	495	495
65	$2\frac{1}{2}$	130 (P)	590	549	549
		225 (L)	603	564	564
80	3	130 (P)	598	557	557
		225 (L)	611	572	572
100	4	130 (P)	608	567	567
		225 (L)	621	582	582



6.2. Body with flange connection

Note:

Dimensions in mm



)0112693 EN Version: AN Status: RL (released | freigegeben | validé) printed: 20.02.2025

Nominal diameter (pipe)	DIN EN 1092 PN 25 FTF 1 according to DIN EN 558 - 1						JIS 10K FTF 10 according to DIN EN 558 - 2							
DN	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

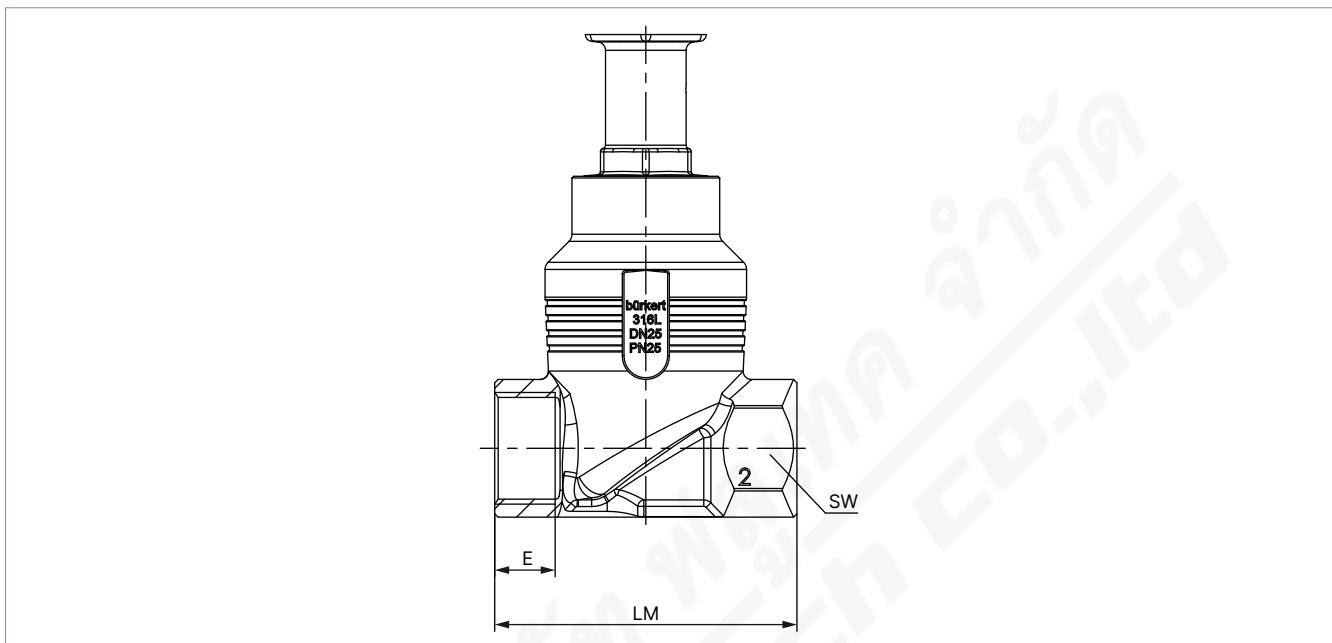
Nominal diameter (pipe)	ANSI B 16.5 Class 150 FTF 37 according to DIN EN 558 - 2						
NPS	Ø DF	LF	Ø BF	AF	Ø D	A x α	Ø MF
½	89	184	60.5	11.2	15.7	4 x 90°	15.7
¾	99	184	69.9	12.7	15.7	4 x 90°	20.8
1	108	184	79.2	14.2	15.7	4 x 90°	26.7
1½	127	222	98.6	17.5	15.7	4 x 90°	40.9
2	152	254	120.7	19.1	19.1	4 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

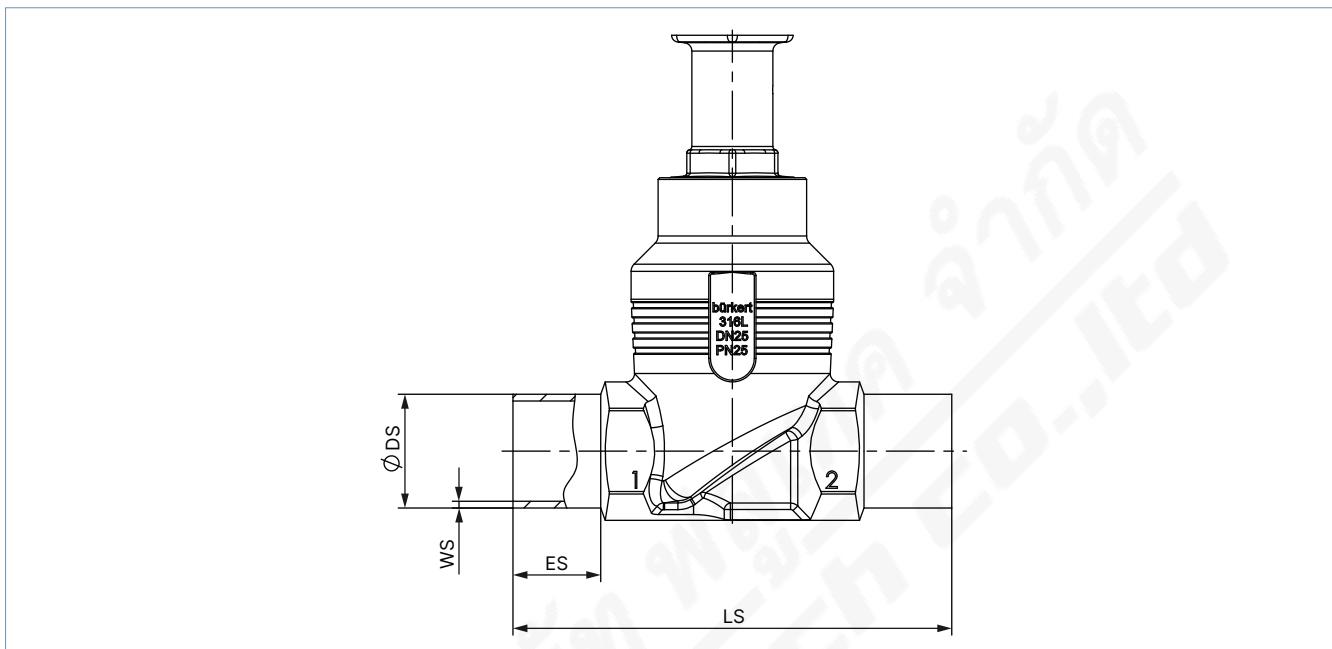


Nominal diameter (port connection)		G (DIN ISO 228-1) NPT (ASME B1.20.1) RC (ISO 7-1)			LM	SW
DN	NPS	G	NPT	RC		
10	3/8	12	10.3	10.1	65	27
15	1/2	14	13.7	13.2	65	27
20	3/4	16	14	14.5	75	34
25	1	18	16.8	16.8	90	41
32	1 1/4	20	17.3	19.1	110	50
40	1 1/2	22	17.3	19.1	120	55
50	2	24	17.6	23.4	150	70
65	2 1/2	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



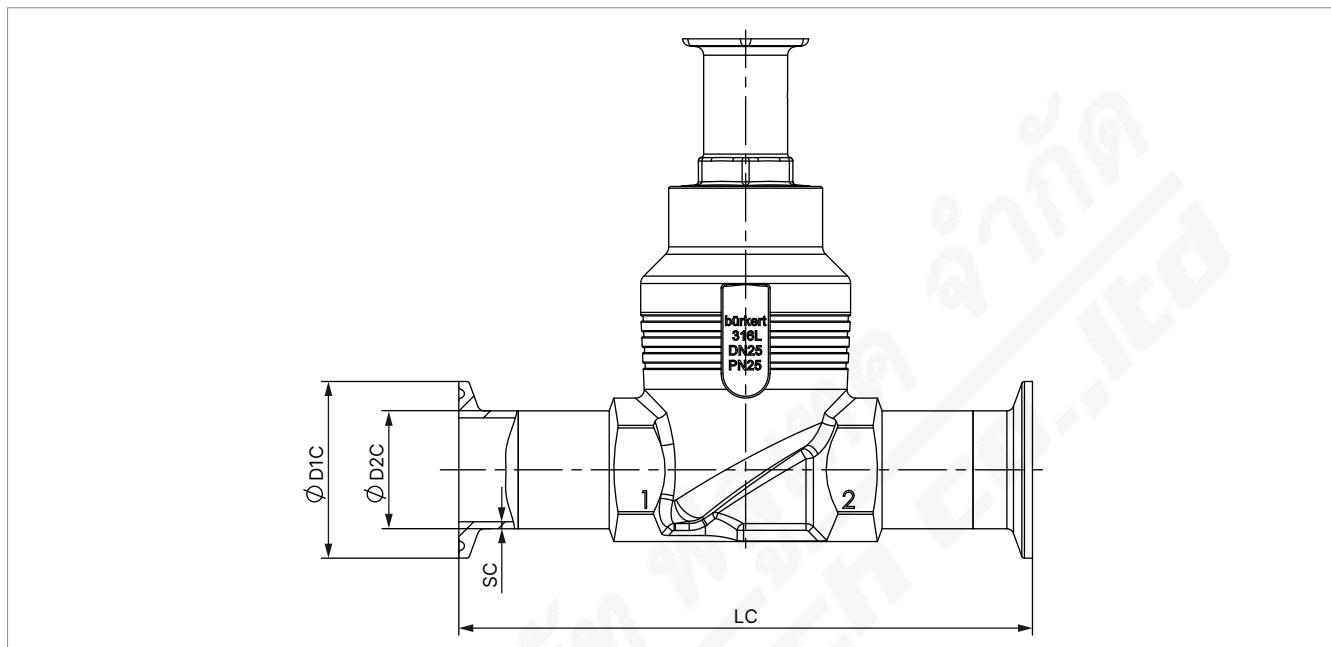
Nominal diameter (port connection)	ES	LS	DIN EN ISO 1127 - 1 / ISO 4200 / DIN 11866 series B		DIN 11850 - 2 / DIN 11866 series A / DIN EN 10357 series A	
			Ø DS	WS	Ø DS	WS
10	20	90	17.2	1.6	13	1.5
15	20	90	21.3	1.6	19	1.5
20	20	100	26.9	1.6	23	1.5
25	26	130	33.7	2.0	29	1.5
32	26	140	42.4	2.0	35	1.5
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 (port connection)	ES	LS	ASME BPE / DIN 11866 series 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



Nominal diameter (port connection)	Clamp: DIN 32676 series A Pipe: DIN 11850 - 2 / DIN 11866 series A / DIN EN 10357 series A				Clamp: DIN 32676 series B Pipe: DIN EN ISO 1127 / ISO 4200 / DIN 11866 series B			
DN	LC	Ø D2 C	Ø D1 C	SC	LC	Ø D2 C	Ø D1 C	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

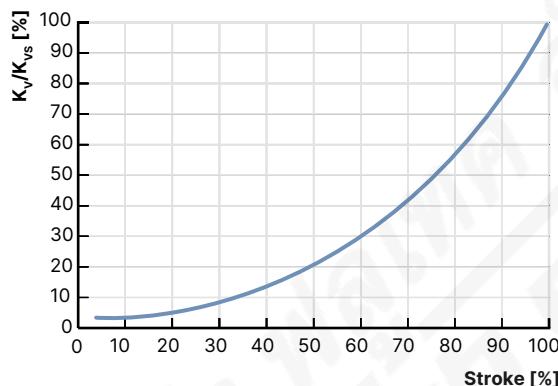
Nominal diameter (port connection)	Clamp: ASME BPE / DIN 11866 series C Pipe: ASME BPE / DIN 11866 series C			
NPS	LC	Ø D2 C	Ø D1 C	SC
1/2	122	12.7	25.0	1.65
3/4	126	19.05	25.0	1.65
1	126	25.4	50.5	1.65
1 1/2	172	38.1	50.5	1.65
2	182	50.8	64.0	1.65
2 1/2	231	63.5	77.5	1.65
3	265	76.2	91.0	1.65
4	315	101.6	119.0	2.11

7. Performance specifications

7.1. Fluidic data

Flow characteristics

- Equal-percentage flow characteristic according to DIN EN 60534 - 2 - 4 (linear characteristic curve on request)
- K_{VR} value at 5 % of the stroke for seat size > 10 mm
 K_{VR} value at 10 % of the stroke for seat size ≤ 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 below seat (for liquids, steam and gases)

Note:

- K_V value [m^3/h]: measurement with water according to DIN EN 60534 - 2 - 4
- Operating limits (see "7.2. Operating limits" on page 22)

Nominal diameter (port connection)	Seat size	Actuator size Ø	Operating pressure max. (Seat leakage class)			Theoretical range-ability	K_V value water at stroke [m^3/h]										K_{VS} value		
			Seat seal				5% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%												
			CF A				0.005 0.009 0.013 0.019 0.026 0.034 0.044 0.060 0.077 0.1												
			Stainless steel	PTFE	PEEK		0.009 0.015 0.023 0.033 0.046 0.063 0.085 0.11 0.16 0.2												
DN	NPS	[mm]	[bar(g)]				[m³/h]												
10	$\frac{3}{8}^{2)}$	3	50 (D)	16 (IV)	-	-	20:1	-	0.005	0.009	0.013	0.019	0.026	0.034	0.044	0.060	0.077	0.1	
			70 (M)	25 (IV) 40 (IV) ⁴⁾				-	0.009	0.015	0.023	0.033	0.046	0.063	0.085	0.11	0.16	0.2	
		3	50 (D)	16 (IV)				-	0.009	0.015	0.023	0.033	0.046	0.063	0.085	0.11	0.16	0.2	
			70 (M)	25 (IV) 40 (IV) ⁴⁾				-	0.009	0.015	0.023	0.033	0.046	0.063	0.085	0.11	0.16	0.2	
		4	50 (D)	16 (IV)			30:1	-	0.023	0.033	0.049	0.070	0.097	0.14	0.18	0.26	0.35	0.5	
			70 (M)	25 (IV) 40 (IV) ⁴⁾				-	0.023	0.033	0.049	0.070	0.097	0.14	0.18	0.26	0.35	0.5	
		6	50 (D)	16 (IV)	16 (VI)	10 (VI)		50:1	0.019	0.026	0.046	0.072	0.11	0.17	0.25	0.39	0.57	0.85	1.25
			70 (M)	25 (IV) 40 (IV) ⁴⁾	25 (IV) 40 (IV) ⁴⁾	25 (VI)			0.019	0.026	0.046	0.072	0.11	0.17	0.25	0.39	0.57	0.85	1.25
		8	50 (D)	16 (IV)	16 (VI)	10 (VI)			0.060	0.070	0.090	0.12	0.18	0.26	0.42	0.61	0.92	1.5	2.0
			70 (M)	25 (IV) 40 (IV) ⁴⁾	25 (IV) 40 (IV) ⁴⁾	25 (VI)			0.060	0.070	0.090	0.12	0.18	0.26	0.42	0.61	0.92	1.5	2.0
		10	50 (D)	16 (IV)	16 (VI)	10 (VI)			0.090	0.11	0.13	0.19	0.30	0.48	0.73	1.0	1.6	2.3	2.7
			70 (M)	25 (IV) 40 (IV) ⁴⁾	25 (IV) 40 (IV) ⁴⁾	25 (VI)			0.090	0.11	0.13	0.19	0.30	0.48	0.73	1.0	1.6	2.3	2.7

Nominal diameter (port connection)		Seat size	Actuator size Ø	Operating pressure max. (Seat leakage class)			Theoretical range-ability	K _v value water at stroke [m ³ /h]										K _{vs} value		
				Seat seal				5 % 10 % 20 % 30 % 40 % 50 % 60 % 70 % 80 % 90 % 100 %												
				CF A																
				Stainless steel	PTFE	PEEK														
DN	NPS	[mm]	[bar(g)]			[m ³ /h]														
15	1/2 ^{2.)}	3	50 (D)	16 (IV)	-	-	20:1	-	0.005	0.009	0.013	0.019	0.026	0.034	0.044	0.060	0.077	0.1		
			70 (M)	25 (IV) 40 (IV) ^{4.)}	-			-	0.009	0.015	0.023	0.033	0.046	0.063	0.085	0.11	0.16	0.2		
		3	50 (D)	16 (IV)	-	-	20:1	-	0.023	0.033	0.049	0.070	0.097	0.14	0.18	0.26	0.35	0.5		
			70 (M)	25 (IV) 40 (IV) ^{4.)}	-			-	0.023	0.033	0.049	0.070	0.097	0.14	0.18	0.26	0.35	0.5		
		4	50 (D)	16 (IV)	-	-	30:1	-	0.023	0.033	0.049	0.070	0.097	0.14	0.18	0.26	0.35	0.5		
			70 (M)	25 (IV) 40 (IV) ^{4.)}	-			-	0.023	0.033	0.049	0.070	0.097	0.14	0.18	0.26	0.35	0.5		
		6	50 (D)	16 (IV)	16 (VI)	10 (VI)	-	50:1	0.019	0.026	0.046	0.072	0.11	0.17	0.25	0.39	0.57	0.85	1.25	
			70 (M)	25 (IV) 40 (IV) ^{4.)}	25 (VI) 40 (VI) ^{4.)}	25 (VI)			0.070	0.080	0.11	0.13	0.19	0.27	0.43	0.63	0.95	1.6	2.1	
		8	50 (D)	16 (IV)	16 (VI)	10 (VI)	-	0.090	0.11	0.15	0.19	0.31	0.49	0.75	1.1	1.7	2.5	3.1		
			70 (M)	25 (IV) 40 (IV) ^{4.)}	25 (VI) 40 (VI) ^{4.)}	25 (VI)			0.090	0.11	0.15	0.19	0.31	0.49	0.75	1.1	1.7	2.5	3.1	
		10	50 (D)	16 (IV)	16 (VI)	10 (VI)	-	0.14	0.17	0.22	0.35	0.52	0.80	1.2	1.8	2.7	3.7	4.3		
			70 (M)	25 (IV) 40 (IV) ^{4.)}	25 (VI) 40 (VI) ^{4.)}	25 (VI)			0.14	0.17	0.22	0.35	0.52	0.80	1.2	1.8	2.6	3.2		
		15	50 (D)	16 (IV)	16 (VI)	10 (VI)	-	0.11	0.12	0.16	0.20	0.33	0.52	0.77	1.2	1.8	2.6	3.2		
			70 (M)	25 (IV) 40 (IV) ^{4.)}	25 (VI) 40 (VI) ^{4.)}	25 (VI)			0.11	0.12	0.16	0.20	0.33	0.52	0.77	1.2	1.8	2.6	3.2	
		20	10	50 (D)	16 (IV)	16 (VI)	10 (VI)	-	0.14	0.17	0.22	0.35	0.52	0.80	1.2	1.8	2.9	4.0	5.2	
				70 (M)	25 (IV) 40 (IV) ^{4.)}	25 (VI) 40 (VI) ^{4.)}	25 (VI)			0.14	0.17	0.22	0.35	0.52	0.80	1.2	1.8	2.9	4.0	5.2
		20	15	50 (D)	16 (IV)	16 (VI)	10 (VI)	-	0.20	0.25	0.30	0.45	0.70	1.1	1.6	2.4	3.5	5.2	7.1	
				70 (M)	16 (IV)	16 (VI)	10 (VI)			0.20	0.25	0.30	0.45	0.70	1.1	1.6	2.4	3.5	5.2	7.1

Nominal diameter (port connection)		Seat size	Actuator size Ø	Operating pressure max. (Seat leakage class)			Theoretical range-ability	K _v value water at stroke [m ³ /h]										K _{vs} value		
				Seat seal				5 % 10 % 20 % 30 % 40 % 50 % 60 % 70 % 80 % 90 % 100 %												
				CF A				Stainless steel PTFE PEEK												
				[mm]	[bar(g)]			[m ³ /h]												
25	1	3	50 (D)	16 (IV)	-	-	20:1	-	0.005	0.009	0.013	0.019	0.026	0.034	0.044	0.060	0.077	0.1		
				25 (IV) 40 (IV) ^{4.)}				-	0.009	0.015	0.023	0.033	0.046	0.063	0.085	0.11	0.16	0.2		
		3	50 (D)	16 (IV)				-	0.023	0.033	0.049	0.070	0.097	0.14	0.18	0.26	0.35	0.5		
				25 (IV) 40 (IV) ^{4.)}				-	0.019	0.026	0.046	0.072	0.11	0.17	0.25	0.39	0.57	0.85	1.25	
		4	50 (D)	16 (IV)	-	-	30:1	-	0.070	0.080	0.11	0.13	0.19	0.27	0.43	0.63	0.95	1.6	2.1	
				25 (IV) 40 (IV) ^{4.)}				-	0.023	0.033	0.049	0.070	0.097	0.14	0.18	0.26	0.35	0.5		
		6	50 (D)	16 (IV)	16 (VI)	10 (VI)		0.070	0.080	0.11	0.13	0.19	0.27	0.43	0.63	0.95	1.6	2.1		
				25 (IV) 40 (IV) ^{4.)}	25 (VI)	25 (VI)		0.11	0.12	0.16	0.20	0.33	0.52	0.77	1.2	1.8	2.6	3.2		
		8	50 (D)	16 (IV)	16 (VI)	10 (VI)		0.11	0.12	0.16	0.20	0.33	0.52	0.77	1.2	1.8	2.6	3.2		
				25 (IV) 40 (IV) ^{4.)}	25 (VI)	25 (VI)		0.14	0.17	0.22	0.35	0.52	0.80	1.2	1.8	2.9	4.1	5.3		
		10	50 (D)	16 (IV)	16 (VI)	10 (VI)		0.14	0.17	0.22	0.35	0.52	0.80	1.2	1.8	2.9	4.1	5.3		
				25 (IV) 40 (IV) ^{4.)}	25 (VI)	25 (VI)		0.20	0.25	0.31	0.47	0.70	1.1	1.6	2.5	3.8	5.4	7.2		
		15	50 (D)	16 (IV)	16 (VI)	10 (VI)		0.20	0.25	0.31	0.47	0.70	1.1	1.6	2.5	3.8	5.4	7.2		
				25 (IV) 40 (IV) ^{4.)}	25 (VI)	25 (VI)		0.35	0.38	0.65	1.0	1.5	2.2	3.4	5.1	7.0	9.4	12.0		
		20	70 (M)	16 (IV)	16 (VI)	10 (VI)		0.21	0.24	0.32	0.43	0.60	0.85	1.2	1.6	2.3	3.3	4.8		
				25 (IV) 40 (IV) ^{4.)}	25 (VI)	25 (VI)		0.22	0.25	0.35	0.50	0.70	1.1	1.6	2.5	3.8	5.8	8.0		
		25	90 (N)	16 (IV)	16 (VI)	10 (VI)		0.38	0.45	0.65	0.93	1.3	1.8	2.6	3.7	5.1	6.7	8.9		
				25 (IV) 40 (IV) ^{4.)}	25 (VI)	25 (VI)		0.40	0.47	0.73	1.1	1.6	2.5	3.7	5.4	7.5	10.3	13.0		
		32	90 (N)	16 (IV)	16 (VI)	10 (VI)		0.45	0.58	0.80	1.1	1.7	2.5	3.5	4.9	7.0	10.1	13.4		
				25 (IV)	25 (VI)	20 (VI)		0.48	0.60	0.85	1.3	2.1	3.1	4.5	6.8	10.2	14.0	17.8		
		40	90 (N)	12 (IV)	12 (VI)	7 (VI)		0.38	0.47	0.68	0.95	1.4	1.9	2.7	3.7	5.2	7.2	9.4		
				25 (IV)	25 (VI)	20 (VI)		0.40	0.50	0.75	1.1	1.7	2.6	3.8	5.6	8.0	10.7	13.6		
		32	90 (N)	16 (IV)	16 (VI)	10 (VI)		0.45	0.55	0.80	1.1	1.7	2.5	3.6	5.0	7.2	10.8	14.4		
				25 (IV)	25 (VI)	20 (VI)		0.48	0.60	0.85	1.3	2.1	3.2	4.6	6.9	11.0	15.0	20.0		
		40	90 (N)	12 (IV)	12 (VI)	7 (VI)		0.55	0.67	1.0	1.5	2.3	3.2	4.5	6.5	9.5	13.7	17.5		
				25 (IV)	25 (VI)	20 (VI)		0.60	0.70	1.1	1.7	2.7	4.0	6.0	9.2	13.8	18.2	24.0		



Nominal diameter (port connection)		Seat size	Actuator size Ø	Operating pressure max. (Seat leakage class)			Theoretical range-ability	K _v value water at stroke [m ³ /h]										K _{vs} value				
				Seat seal				[m ³ /h]														
				CF A				Stainless steel	PTFE	PEEK	5%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	
DN	NPS	[mm]		[bar(g)]				[m ³ /h]														
50	2 ²⁾	20	90 (N)	25 (20 ¹⁾ (IV)	–	–	50:1	–	0.12	0.23	0.33	0.47	0.67	0.96	1.4	1.9	2.7	3.8				
			130 (P)	25 (20 ¹⁾ (IV)				0.14	0.25	0.38	0.57	0.85	1.3	1.9	2.8	4.1	6.3					
		32	90 (N)	16 (IV)				0.29	0.46	0.66	0.95	1.3	1.9	2.7	3.7	5.2	7.4					
			130 (P)	25 (20 ¹⁾ (IV)				0.31	0.51	0.76	1.1	1.7	2.5	3.6	5.3	7.9	12.0					
		32	90 (N)	16 (IV)	16 (VI)	10 (VI)		0.45	0.56	0.80	1.1	1.7	2.5	3.6	5.0	7.2	11.4	15.3				
			130 (P)	25 (20 ¹⁾ (IV)	25 (20 ¹⁾ (VI)	20 (VI)		0.48	0.60	0.90	1.3	2.1	3.2	4.6	6.9	11.6	16.0	21.0				
		40	90 (N)	12 (IV)	12 (VI)	7 (VI)		0.57	0.68	0.90	1.5	2.1	3.2	4.5	6.4	9.5	13.8	18.0				
			130 (P)	25 (20 ¹⁾ (IV)	25 (20 ¹⁾ (VI)	20 (VI)		0.60	0.70	1.0	1.7	2.6	4.0	5.9	9.2	14.0	18.9	24.5				
		50	90 (N)	7 (III)	7 (VI)	–		0.85	1.1	1.7	2.6	3.8	5.4	7.7	11.4	16.0	21.5	28.0				
			130 (P)	25 (20 ¹⁾ (IV)	25 (20 ¹⁾ (VI)	20 (VI)		0.90	1.1	1.9	2.9	4.5	6.8	10.5	15.5	22.0	29.5	37.0				
65	2 1/2 ²⁾	40	130 (P)	25 (15 ¹⁾ (IV)	25 (15 ¹⁾ (VI)	20 (15 ¹⁾ (VI)		0.65	0.75	1.1	1.8	2.8	4.3	6.5	10.4	16.0	22.0	29.0				
		50	130 (P)	16 (15 ¹⁾ (IV)	16 (15 ¹⁾ (VI)	10 (VI)		1.0	1.2	2.0	3.1	4.8	6.7	9.7	16.0	24.0	35.0	45.0				
		65	130 (P)	16 (15 ¹⁾ (IV)	16 (15 ¹⁾ (VI)	10 (VI)		1.6	2.0	3.0	5.0	8.0	13.5	22.0	33.0	45.0	56	65				
			225 (L) ³⁾	20 (15 ¹⁾ (IV)	20 (15 ¹⁾ (VI)	12 (VI)		1.1	1.4	2.1	3.2	4.9	8.0	12.0	18.5	31.5	46.5	62				
			225 (L)	25 (15 ¹⁾ (IV)	25 (15 ¹⁾ (VI)	16 (15 ¹⁾ (VI)		1.0	1.2	2.0	3.4	5.3	8.3	13.0	19.0	26.0	35.0	45.0				
80	3 ²⁾	50	130 (P)	25 (12.5 ¹⁾ (IV)	25 (12.5 ¹⁾ (VI)	20 (12.5 ¹⁾ (VI)		1.6	2.0	2.9	5.0	8.2	13.0	22.0	35.0	48.0	61	73				
		65	130 (P)	16 (12.5 ¹⁾ (IV)	16 (12.5 ¹⁾ (VI)	10 (VI)		1.4	1.7	2.5	3.8	5.7	8.2	12.2	19.5	32.5	50	70				
			225 (L) ³⁾	25 (12.5 ¹⁾ (IV)	25 (12.5 ¹⁾ (VI)	16 (12.5 ¹⁾ (VI)		2.5	3.4	6.3	10.7	16.0	27.0	42.5	58	73	87	100				
			225 (L)	25 (12.5 ¹⁾ (IV)	25 (12.5 ¹⁾ (VI)	20 (12.5 ¹⁾ (VI)		2.1	2.6	4.2	7.0	10.5	16.0	25.0	40.0	60	83	100				
		80	130 (P)	10 (IV)	10 (VI)	10 (VI)																
			225 (L) ³⁾	16 (12.5 ¹⁾ (IV)	16 (12.5 ¹⁾ (VI)	10 (VI)																
			225 (L)	25 (12.5 ¹⁾ (IV)	25 (12.5 ¹⁾ (VI)	15 (12.5 ¹⁾ (VI)																
100	4	65	130 (P)	16 (10 ¹⁾ (IV)	16 (10 ¹⁾ (VI)	10 (VI)	50:1	1.4	1.8	2.8	5.0	8.8	15.0	25.0	37.0	50	64	77				
		80	225 (L) ³⁾	25 (10 ¹⁾ (IV)	25 (10 ¹⁾ (VI)	16 (10 ¹⁾ (VI)		1.4	1.7	2.6	3.8	5.7	8.3	12.6	20.0	32.0	51	75				
			225 (L)	25 (10 ¹⁾ (IV)	25 (10 ¹⁾ (VI)	20 (10 ¹⁾ (VI)		2.2	3.1	5.9	10.3	17.5	30.0	48.0	66	82	97	110				
		100	130 (P)	10 (IV)	10 (VI)	10 (VI)		2.1	2.6	4.3	7.0	11.0	17.0	26.5	44.0	65	89	115				
			225 (L) ³⁾	10 (IV)	10 (VI)	6 (VI)		3.8	5.2	9.5	15.0	26.0	46.5	68	90	111	128	140				
			225 (L)	16 (10 ¹⁾ (IV)	16 (10 ¹⁾ (VI)	10 (VI)		3.2	3.9	5.7	9.0	13.5	20.5	32.0	51	83	118	140				

1.) According to the Pressure Equipment Directive 97/23/EC for compressible fluids of Group 1 (hazardous gases and vapours according to Article 3 No. 1.3 letter a first da sh) 2.) Deviation for port connections according to ASME BPE: the next largest nominal diameter is used, e.g. NPS 1 instead of NPS ¾.

3.) Reduced spring force

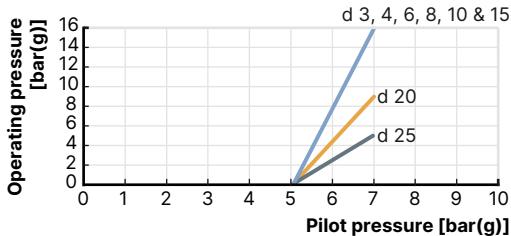
4.) Only for housing variants with nominal pressure PN 40 (optional)

Pilot pressure diagram with flow direction below seat (control function B)
Note:

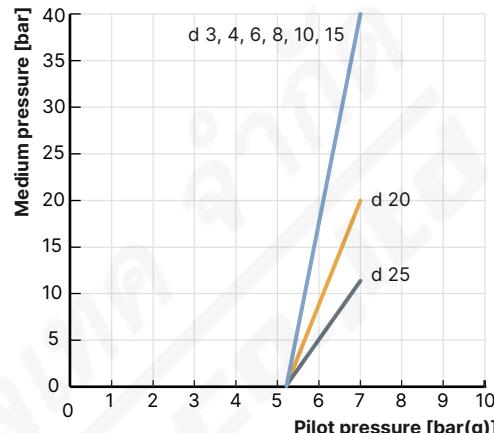
d = Seat size

Actuator size Ø 50 mm

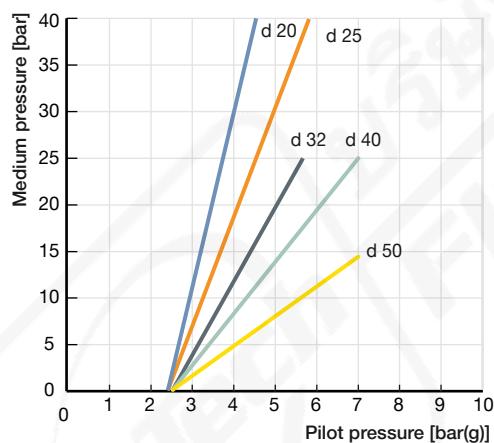
Maximum control pressure 7 bar(g)


Actuator size Ø 70 mm

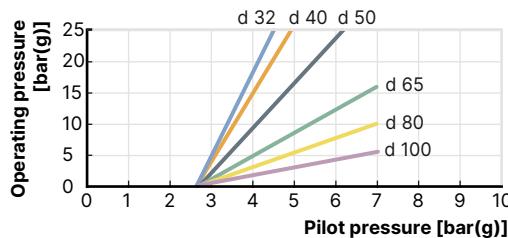
Maximum control pressure 7 bar(g)


Actuator size Ø 90 mm

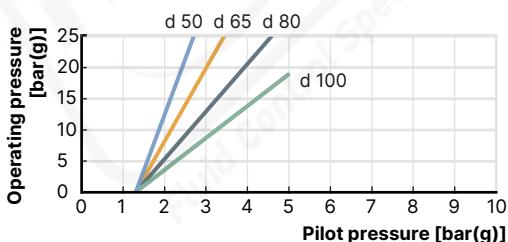
Maximum control pressure 7 bar(g)


Actuator size Ø 130 mm

Maximum control pressure 7 bar(g)


Actuator size Ø 225 mm

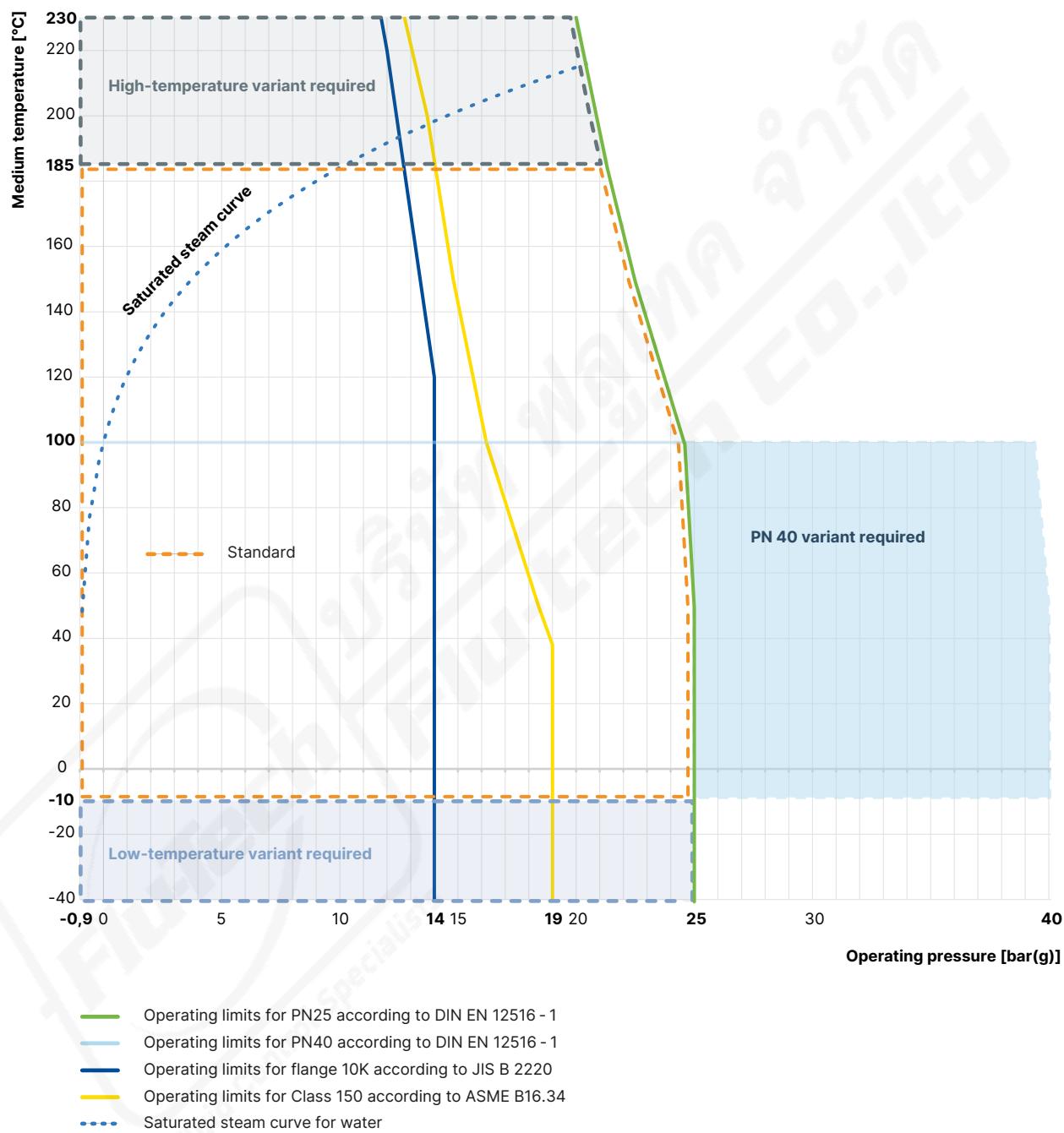
Maximum control pressure 5 bar(g)

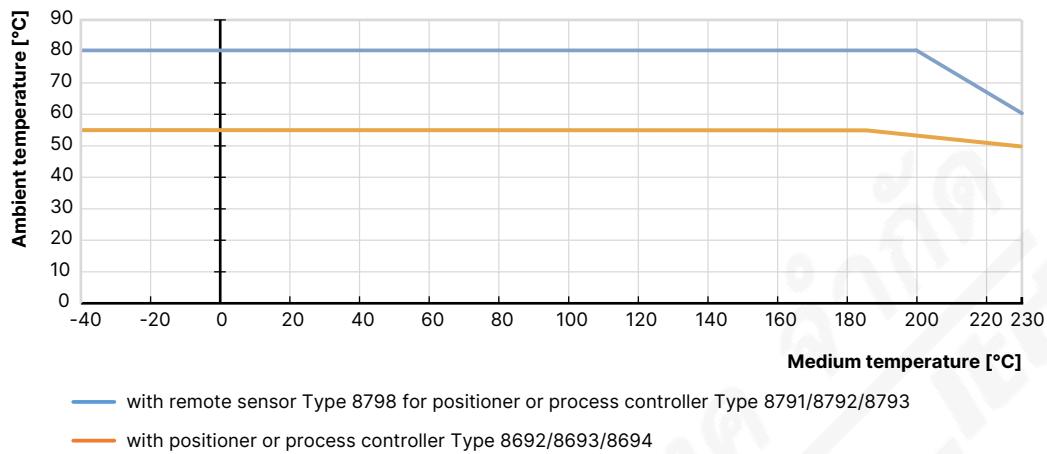


7.2. Operating limits

Operating limits for medium temperature and operating pressure

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



Operating limits for ambient and medium temperature

Operating limits for 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
	For particularly demanding process conditions such as cavitation, erosion by wet steam or abrasive media, hardened cones and seats can be used to significantly increase the service life.		Hardened 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

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

Oxygen variant

Non-metallic wetted materials are tested for suitability with oxygen and are suitable for operating pressures up to 25 bar(g) and media temperatures up to + 60 °C. Optional variant for operating pressures up to 40 bar(g) and media temperatures up to + 100 °C on request.

Hydrogen variant

Wetted materials are tested for suitability with hydrogen and are suitable for operating pressures up to 40 bar(g) and medium temperatures up to + 100 °C.

The hydrogen variant of Type 2301 is tested for an external tightness (stem seal and body seal) totalling 10^{-6} mbar*l/s at 40 bar, + 20 °C helium and 2.78×10^{-3} mbar*l/s at 40 bar, - 10 °C/+ 100 °C hydrogen. An external leak-tightness of 10^{-4} mbar*l/s is ensured when delivered.

8. Product accessories

Process controller TopControl

Type 8693 ▶ Actuator size Ø 70/90/130/225 mm

	<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 positioner and process controller can be initialised automatically. Easy operation and selection of additional software functions as well as parameterisation are carried out via the large graphic display and a touch keypad. Device configuration and parameterisation can also be conveniently carried out by the Burkert Communicator software via a PC interface.</p> <p>Features</p> <ul style="list-style-type: none"> • Contactless position sensor • Universal control system for single and double acting actuators • Highly dynamic actuating system without internal control air consumption in the balanced state • Integrated diagnostic functions for valve monitoring • Automatic initialisation of the positioner and process controller using the TUNE function • Safeguarding in the event of failure of the electrical or pneumatic auxiliary power • PROFIBUS DPV1, EtherNet/IP, PROFINET, Modbus TCP, Burkert system bus (büS) • Compact and robust hygienic stainless steel design <p>Customer benefits</p> <ul style="list-style-type: none"> • Quick and easy commissioning • Intuitive and simple operation via a graphic display with backlight and touch keypad • High system availability due to increased drive service life by means of spring chamber ventilation • Guaranteed reliability and predictable maintenance through valve monitoring and diagnostics • Easy maintenance and process monitoring
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Positioner TopControl**Type 8692 ▶ Actuator size Ø 70/90/130/225 mm**

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 initialised automatically using the TUNE function. Easy operation and the selection of the extensive additional software functions as well as parameterisation are carried out via the large graphic display and the touch keypad. The device configuration and parameterisation can also be conveniently carried out using the Burkert Communicator software via a PC interface.

Features

- Contactless position sensor
- Universal positioning system for single and double-acting actuators in the balanced state
- Highly dynamic positioning system without internal control air consumption
- Integrated diagnostic functions for valve monitoring
- Automatic initialisation of the positioner by using the TUNE function
- Safeguard in the event of failure of the electrical or pneumatic auxiliary power
- PROFIBUS DPV1, EtherNet/IP, PROFINET, Modbus TCP, Burkert system bus (büS)
- Compact and robust hygienic stainless steel design

Customer benefits

- Quick and easy commissioning
- Intuitive and simple operation via graphic display with backlight and touch keypad
- High system availability due to increased drive service life by means of spring chamber ventilation
- Guaranteed reliability and predictable maintenance through valve monitoring and diagnostics

Positioner TopControl BASIC**Type 8694 ▶ Actuator size Ø 70/90/130/225 mm**

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 parameterisation are performed via push buttons and DIP switches. The device configuration and parameterisation can also be conveniently carried out using the Burkert Communicator software via a PC interface.

Features

- Contactless position sensor
- Universal positioning system for single and double-acting actuators
- Ultra dynamic positioning system without internal control air consumption
- AS-Interface, IO-Link, Burkert system bus (büS) (only 8694)
- Compact and robust hygienic stainless steel design

Customer benefits

- Simple and safe commissioning using the teach function
- Minimum space requirement in the plant pipework for more flexibility in plant design
- High system availability due to increased drive service life by means of spring chamber ventilation

**Type 8696 ▶
Actuator size Ø 50 mm**

Process controller SideControl Remote**Type 8793 ▶ with remote sensor 8798 ▶ Actuator size Ø 70/90/130/225 mm**

The intelligent digital positioner and process controller Type 8793 is designed for mounting on lift or swivel drives with standardisation in accordance with IEC 534 - 6 or VDI/VDE 3845 for demanding control tasks. The variant with remote position sensor Type 8798 is used to control Burkert process control valves. It is operated via a graphic display with backlight. The initialisation of the positioner and process controller can be done automatically using the TUNE function. The type of controlled system is automatically recognised and the appropriate controller structure with the corresponding optimum parameter set is determined.

Features

- Universal control system for single and double acting actuators
- Integrated diagnostic functions for valve monitoring
- Automatic initialisation of the position and process controller using the TUNE function
- Ultra-dynamic actuating system without internal control air consumption
- Illuminated graphic display with backlight and touch keypad
- PROFIBUS DPV1, EtherNet/IP, PROFINET, Modbus TCP, Burkert system bus (büS)
- Compact and robust design
- Adaptation according to IEC 534 - 6 or VDI/VDE 3845 for lift and swivel drives or as remote variant on Burkert process valves

**Customer benefits**

- Quick and easy commissioning
- Intuitive and simple operation via graphic display with backlight and touch keypad
- Guaranteed reliability and scheduled maintenance thanks to valve monitoring and diagnostics
- Easy maintenance and process monitoring
- Long service life

Positioner SideControl Remote**Positioner Type 8792 ▶ with remote sensor Type 8798 ▶ Actuator size Ø 70/90/130/225 mm**

The intelligent digital positioner and process controller Type 8792 is designed for attachment to lift and swivel drives with standardisation 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 Burkert process control valves. It is operated via a graphic display with backlight. The initialisation of the positioner and process controller can be done automatically by using the TUNE function.

Features

- Illuminated graphic display with backlight and touch keypad
- Universal control system for single and double acting actuators
- Ultra-dynamic actuating system without internal control air consumption
- Integrated diagnostic functions for valve monitoring
- PROFIBUS DPV1, EtherNet/IP, PROFINET, Modbus TCP, Burkert system bus (büS)
- Compact and robust design
- Adaptation according to IEC 534 - 6 or VDI/VDE 3845 for lift and swivel drives or as remote variant on Burkert process valves

**Customer benefits**

- Quick and easy commissioning
- Intuitive and simple operation via a graphic display with backlight and touch keypad
- Guaranteed reliability and scheduled maintenance thanks to valve monitoring and diagnostics
- Long service life

Positioner SideControl BASIC Remote**Positioner Type 8791 ▶ with remote sensor Type 8798 ▶ Actuator size Ø 70/90/130/225 mm**
**Positioner IP20 Type 8791 ▶ with remote sensor
Type 8798 ▶ Actuator size
Ø 70/90/130/225 mm**


The intelligent digital positioner and process controller Type 8791/8798 is designed for mounting on linear and rotary actuators with standardisation in accordance with IEC 534-6 or VDI/VDE 3845 for demanding control tasks. The variant with remote position sensor Type 8798 is used for controlling Burkert process control valves. It is operated via a graphic display with backlight. The positioner and process controller can be initialised automatically using the TUNE functions.

Features

- Simple design
- Universal control system for single and double acting actuators
- Highly dynamic actuating system without internal control air consumption in the balanced state
- Adaptation according to IEC 534-6 or VDI/VDE 3845 for lift and swivel drives or as remote variant on Burkert process valves
- AS-Interface, IO-Link, Burkert system bus (büS) (only for positioner Type 8791 BASIC Remote)

Customer benefits

- Simple commissioning
- Simple device for simple control tasks
- Low energy consumption

9. Networking and combination with other Burkert 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 70/90/130/225 mm)
- A digital electropneumatic positioner, basic **Type 8694** (for valve actuator size Ø 70/90/130/225 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 70/90/130/225 mm) and a remote sensor, **Type 8798**
- An electropneumatic positioner, SideControl Basic **Type 8791** (for valve actuator size Ø 70/90/130/225 mm) and a remote sensor, **Type 8798**

Note:

- For the configuration of further valve systems please use the **Product Enquiry Form** (see "**10.3. Burkert Product Enquiry Form**" on page 30).
- You order two components and receive a completely assembled and tested valve.

Example with threaded connection



Control valve**Type 2301**

DTS 1000112693 EN Version: AN Status: RL (released | freigegeben | validé) printed: 20.02.2025

Digital electropneumatic process controller / positioner SideControl

Type 8793 ▶
Process controller
+
Type 8798 ▶
Remote sensor
Actuator Ø 70, 90, 130, 225



Type 8792 ▶
Positioner
+
Type 8798 ▶
Remote sensor
Actuator Ø 70, 90, 130, 225



Type 8791 ▶
Positioner
+
Type 8798 ▶
Remote sensor
Actuator Ø 70, 90, 130, 225



SideControl Basic IP20
Positioner
Actuator Ø 50

oder

ELEMENT Continuous control valve system

Type 8802-GD-Q ▶
2301 + 8793 + 8798



Type 8802-GD-P ▶
2301 + 8792 + 8798



Type 8802-GD-O ▶
2301 + 8791 + 8798

10. Ordering information

10.1. Burkert eShop



Burkert eShop – Easy ordering and quick delivery

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

[Order online now](#)

10.2. Burkert product filter



Burkert product filter – Get quickly to the right product

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

[Try out our product filter](#)

10.3. Burkert Product Enquiry Form

Note:

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

Burkert 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 Burkert contact. This will enable us to provide you with the best possible advice.

[Fill out the form now](#)

10.4. Ordering chart flange connection

Valve with flow direction below seat

Nominal diameter (port connection)		Seat size	Actuator size Ø	K _{vs} value	Article no.	
					[mm]	[m ³ /h]
DIN EN 1092 - 1						
10	3/8	3	70 (M)	0.1	-	o. r.
		3	70 (M)	0.2	-	o. r.
		4	70 (M)	0.5	-	o. r.
		6	70 (M)	1.25	370257 ☰	350725 ☰
		8	70 (M)	2	213985 ☰	215212 ☰
		10	70 (M)	2.7	213989 ☰	215215 ☰
15	1/2	3	70 (M)	0.1	-	o. r.
		3	70 (M)	0.2	-	o. r.
		4	70 (M)	0.5	-	o. r.
		6	70 (M)	1.25	234255 ☰	378904 ☰
		8	70 (M)	2.1	213987 ☰	215214 ☰
		10	70 (M)	3.1	213991 ☰	215217 ☰
20	3/4	15	70 (M)	4.3	204932 ☰	205010 ☰
		10	70 (M)	3.2	210530 ☰	215218 ☰
		15	70 (M)	5.2	213993 ☰	214030 ☰
25	1	20	70 (M)	7.1	204935 ☰	205012 ☰
		15	70 (M)	5.3	213994 ☰	214031 ☰
		20	70 (M)	7.2	213995 ☰	214032 ☰
		25	70 (M)	12	204937 ☰	205014 ☰
32	1 1/4	90 (N)	12	242054 ☰	229421 ☰	
		25	90 (N)	8.9	213997 ☰	210446 ☰
		130 (P)	13	222634 ☰	222655 ☰	
		32	90 (N)	13.4	204939 ☰	205016 ☰
40	1 1/2	130 (P)	17.8	223597 ☰	223598 ☰	
		32	90 (N)	14.4	213999 ☰	214035 ☰
		130 (P)	20.2	222636 ☰	222657 ☰	
		40	90 (N)	17.5	204941 ☰	205018 ☰
50	2	130 (P)	23.8	219791 ☰	222659 ☰	
		40	90 (N)	18	214001 ☰	214037 ☰
		130 (P)	24.6	222638 ☰	222660 ☰	
		50	90 (N)	28	204942 ☰	205019 ☰
65	2 1/2	130 (P)	37	214003 ☰	214039 ☰	
		50	130 (P)	45	214005 ☰	214040 ☰
		225 (L)	39.5	20060552 ☰	20060584 ☰	
		65	130 (P)	65	217772 ☰	219618 ☰
80	3	225 (L)	62	20060553 ☰	20060585 ☰	
		65	130 (P)	73	239545 ☰	239581 ☰
		225 (L)	70	20060554 ☰	20060587 ☰	
		80	130 (P)	100	239540 ☰	239576 ☰
100	4	225 (L)	100	20060555 ☰	20060589 ☰	
		80	130 (P)	110	239561 ☰	239597 ☰
		225 (L)	115	20060556 ☰	20060590 ☰	
		100	130 (P)	140	239556 ☰	331125 ☰
		225 (L)	140	20060557 ☰	20060591 ☰	



Nominal diameter (port connection)		Seat size	Actuator size Ø	K _{vs} value	Article no.	
DN	NPS				PTFE	Stainless steel
JIS 10K						
15	1/2	3	70 (M)	0.1	-	o. r.
		3	70 (M)	0.2	-	o. r.
		4	70 (M)	0.5	-	o. r.
		6	70 (M)	1.25	367023 ☰	o. r.
		8	70 (M)	2.1	215203 ☰	215228 ☰
		10	70 (M)	3.1	213913 ☰	213911 ☰
		15	70 (M)	4.3	204953 ☰	205030 ☰
20	3/4	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	204957 ☰	205034 ☰
			90 (N)	12	242165 ☰	242199 ☰
32	1 1/4	25	90 (N)	8.9	213939 ☰	213937 ☰
			130 (P)	13	222643 ☰	222665 ☰
		32	90 (N)	13.4	213177 ☰	213178 ☰
			130 (P)	17.8	222645 ☰	222667 ☰
40	1 1/2	32	90 (N)	14.4	213932 ☰	213931 ☰
			130 (P)	20.2	222647 ☰	222668 ☰
		40	90 (N)	17.5	204959 ☰	205037 ☰
			130 (P)	23.8	222649 ☰	222670 ☰
50	2	40	90 (N)	18	213941 ☰	213940 ☰
			130 (P)	24.6	222650 ☰	222671 ☰
		50	90 (N)	28	204960 ☰	205038 ☰
			130 (P)	37	214023 ☰	214062 ☰
65	2 1/2	50	130 (P)	45	214024 ☰	214063 ☰
			225 (L)	39.5	20060565 ☰	20060599 ☰
		65	130 (P)	65	219617 ☰	219620 ☰
			225 (L)	62	20060568 ☰	20060600 ☰
80	3	65	130 (P)	73	239547 ☰	239584 ☰
			225 (L)	70	20060569 ☰	20060601 ☰
		80	130 (P)	100	239542 ☰	239578 ☰
			225 (L)	100	20060570 ☰	20060602 ☰
100	4	80	130 (P)	110	239563 ☰	239599 ☰
			225 (L)	115	20060571 ☰	20060604 ☰
		100	130 (P)	140	239558 ☰	239594 ☰
			225 (L)	140	20060572 ☰	20060605 ☰

o. r. = on request



Nominal diameter (port connection)		Seat size	Actuator size Ø [mm]	K _{vs} value [m ³ /h]	Article no.	
DN	NPS				Seat seal	PTFE
ANSI B 16.5						
15	1/2	3	70 (M)	0.1	-	o. r.
			70 (M)	0.2	-	o. r.
		4	70 (M)	0.5	-	o. r.
		6	70 (M)	1.25	367211 ☰	380948 ☰
		8	70 (M)	2.1	215198 ☰	215221 ☰
		10	70 (M)	3.1	215199 ☰	215222 ☰
		15	70 (M)	4.3	204944 ☰	205021 ☰
20	3/4	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	204948 ☰	205025 ☰
			90 (N)	12	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	214013 ☰	214050 ☰
			130 (P)	24.6	463908 ☰	463916 ☰
		50	90 (N)	28	204951 ☰	205028 ☰
			130 (P)	37	214015 ☰	214052 ☰
65	2½	50	130 (P)	45	239537 ☰	239573 ☰
			225 (L)	39.5	20060558 ☰	20060592 ☰
		65	130 (P)	65	239535 ☰	239572 ☰
			225 (L)	62	20060559 ☰	20060594 ☰
80	3	65	130 (P)	73	239546 ☰	239582 ☰
			225 (L)	70	20060560 ☰	20060595 ☰
		80	130 (P)	100	239541 ☰	239577 ☰
			225 (L)	100	20060562 ☰	20060596 ☰
100	4	80	130 (P)	110	239562 ☰	239598 ☰
			225 (L)	115	20060563 ☰	20060597 ☰
		100	130 (P)	140	239557 ☰	239593 ☰
			225 (L)	140	20060564 ☰	20060598 ☰

o. r. = on request

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 threaded connection

Valve with flow direction below seat

Nominal diameter (port connection)		Seat size	Actuator size Ø	K _{vs} value	Article no.			
DN	NPS				[mm]	[m ³ /h]	PTFE	Stainless steel
DIN EN ISO 228-1								
10	3/8	3	70 (M)	0.1	-	o. r.		
		3	70 (M)	0.2	-	o. r.		
		4	70 (M)	0.5	-	o. r.		
		6	70 (M)	1.25	322059 ☰	350407 ☰		
		8	70 (M)	2	215233 ☰	215242 ☰		
		10	70 (M)	2.7	215235 ☰	215245 ☰		
15	1/2	3	70 (M)	0.1	-	o. r.		
		3	70 (M)	0.2	-	o. r.		
		4	70 (M)	0.5	-	o. r.		
		6	70 (M)	1.25	236138 ☰	354643 ☰		
		8	70 (M)	2.1	212964 ☰	215243 ☰		
		10	70 (M)	3.1	215236 ☰	215246 ☰		
20	3/4	15	70 (M)	4.3	206432 ☰	213955 ☰		
		10	70 (M)	3.2	215237 ☰	215247 ☰		
		15	70 (M)	5.2	214067 ☰	215248 ☰		
25	1	20	70 (M)	7.1	206584 ☰	211239 ☰		
		15	70 (M)	5.3	206588 ☰	210460 ☰		
		20	70 (M)	7.2	206586 ☰	210721 ☰		
		25	70 (M)	12	189145 ☰	210485 ☰		
32	1 1/4	90 (N)	12		242203 ☰	242207 ☰		
		25	90 (N)	8.9	214070 ☰	210407 ☰		
		130 (P)	13		222677 ☰	222687 ☰		
		32	90 (N)	13.4	210097 ☰	210458 ☰		
40	1 1/2	130 (P)	17.8		223599 ☰	223600 ☰		
		32	90 (N)	14.4	214072 ☰	214084 ☰		
		130 (P)	20.2		222679 ☰	222689 ☰		
		40	90 (N)	17.5	210098 ☰	207800 ☰		
50	2	130 (P)	23.8		222681 ☰	222691 ☰		
		40	90 (N)	18	214074 ☰	214086 ☰		
		130 (P)	24.6		222682 ☰	222692 ☰		
		50	90 (N)	28	210099 ☰	203693 ☰		
65	2 1/2	130 (P)	37		214076 ☰	214088 ☰		
		50	130 (P)	45	214077 ☰	214089 ☰		
		65	130 (P)	65	219621 ☰	219622 ☰		



Type 2301

Nominal diameter (port connection)		Seat size	Actuator size Ø	K _{vs} value	Article no.	
					PTFE	Stainless steel
DN	NPS					
ISO 7/1 / DIN EN 10226-2						
10	3/8	3	70 (M)	0.1	-	o. r.
		3	70 (M)	0.2	-	o. r.
		4	70 (M)	0.5	-	o. r.
		6	70 (M)	1.25	o. r.	o. r.
		8	70 (M)	2	220418 ☰	220453 ☰
		10	70 (M)	2.7	220421 ☰	220457 ☰
15	1/2	3	70 (M)	0.1	-	o. r.
		3	70 (M)	0.2	-	o. r.
		4	70 (M)	0.5	-	o. r.
		6	70 (M)	1.25	o. r.	o. r.
		8	70 (M)	2.1	220881 ☰	220455 ☰
		10	70 (M)	3.1	220423 ☰	220459 ☰
20	3/4	15	70 (M)	4.3	220882 ☰	220886 ☰
		10	70 (M)	3.2	220425 ☰	220461 ☰
		15	70 (M)	5.2	220427 ☰	220463 ☰
25	1	20	70 (M)	7.1	220430 ☰	220466 ☰
		15	70 (M)	5.3	220428 ☰	220464 ☰
		20	70 (M)	7.2	220431 ☰	220467 ☰
		25	70 (M)	12	220434 ☰	220470 ☰
32	1 1/4	90 (N)	12	464864 ☰	464867 ☰	
		25	90 (N)	8.9	220435 ☰	220471 ☰
		130 (P)	13	463921 ☰	463931 ☰	
		32	90 (N)	13.4	220437 ☰	220473 ☰
40	1 1/2	130 (P)	17.8	463956 ☰	463957 ☰	
		32	90 (N)	14.4	220438 ☰	463803 ☰
		130 (P)	20.2	463923 ☰	463933 ☰	
		40	90 (N)	17.5	220440 ☰	220476 ☰
50	2	130 (P)	23.8	463925 ☰	463935 ☰	
		40	90 (N)	18	220441 ☰	220477 ☰
		130 (P)	24.6	463926 ☰	463936 ☰	
		50	90 (N)	28	220443 ☰	220479 ☰
65	2 1/2	130 (P)	37	220444 ☰	220480 ☰	
		50	130 (P)	45	239536 ☰	239620 ☰
		65	130 (P)	65	239534 ☰	239571 ☰

o. r. = on request



Nominal diameter (port connection)		Seat size	Actuator size Ø	K _{vs} value	Article no. RC (ASME B 1.20.1)			
DN	NPS				[mm]	[m ³ /h]	PTFE	Stainless steel
ASME B 1.20.1								
10	3/8	3	70 (M)	0.1	—	o. r.		
		3	70 (M)	0.2	—	o. r.		
		4	70 (M)	0.5	—	o. r.		
		6	70 (M)	1.25	o. r.	o. r.		
		8	70 (M)	2	220484 ☰	220519 ☰		
		10	70 (M)	2.7	220487 ☰	220523 ☰		
15	1/2	3	70 (M)	0.1	—	o. r.		
		3	70 (M)	0.2	—	o. r.		
		4	70 (M)	0.5	—	o. r.		
		6	70 (M)	1.25	359073 ☰	388407 ☰		
		8	70 (M)	2.1	220888 ☰	220521 ☰		
		10	70 (M)	3.1	220489 ☰	220525 ☰		
20	3/4	15	70 (M)	4.3	220889 ☰	220894 ☰		
		10	70 (M)	3.2	220491 ☰	220527 ☰		
		15	70 (M)	5.2	220493 ☰	220529 ☰		
25	1	20	70 (M)	7.1	220496 ☰	220532 ☰		
		15	70 (M)	5.3	220494 ☰	220530 ☰		
		20	70 (M)	7.2	220497 ☰	220533 ☰		
		25	70 (M)	12	220500 ☰	220536 ☰		
32	1 1/4	90 (N)	12	242377 ☰	242380 ☰			
		25	90 (N)	8.9	220501 ☰	220537 ☰		
		130 (P)	13	222740 ☰	222777 ☰			
		32	90 (N)	13.4	220503 ☰	220539 ☰		
40	1 1/2	130 (P)	17.8	223605 ☰	223606 ☰			
		32	90 (N)	14.4	220504 ☰	220540 ☰		
		130 (P)	20.2	222742 ☰	222763 ☰			
		40	90 (N)	17.5	220506 ☰	220542 ☰		
50	2	130 (P)	23.8	222765 ☰	222767 ☰			
		40	90 (N)	18	220507 ☰	220543 ☰		
		130 (P)	24.6	222768 ☰	222766 ☰			
		50	90 (N)	28	220509 ☰	220545 ☰		
65	2 1/2	130 (P)	37	220510 ☰	220546 ☰			
		50	130 (P)	45	220511 ☰	220547 ☰		
		65	130 (P)	65	220512 ☰	220548 ☰		

o. r. = on request

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		

10.6. Ordering chart welded connection

Valve with flow direction below seat

Nominal diameter (port connection)		Seat size	Actuator size Ø	K _{vs} value	Connection MW x TW	Article no.	
						Seat seal	PTFE
DN	NPS						Stainless steel
DIN EN ISO 1127-1 / ISO 4200 / DIN 11866 Reihe B							
10	3/8	3	70 (M)	0.1	17.2 x 1.6	-	o. r.
		3	70 (M)	0.2	17.2 x 1.6	-	o. r.
		4	70 (M)	0.5	17.2 x 1.6	-	o. r.
		6	70 (M)	1.25	17.2 x 1.6	232888 ☰	378908 ☰
		8	70 (M)	2	17.2 x 1.6	232891 ☰	315915 ☰
		10	70 (M)	2.7	17.2 x 1.6	o. r.	337061 ☰
15	1/2	3	70 (M)	0.1	21.3 x 1.6	-	o. r.
		3	70 (M)	0.2	21.3 x 1.6	-	o. r.
		4	70 (M)	0.5	21.3 x 1.6	-	o. r.
		6	70 (M)	1.25	21.3 x 1.6	288140 ☰	360750 ☰
		8	70 (M)	2.1	21.3 x 1.6	212392 ☰	216407 ☰
		10	70 (M)	3.1	21.3 x 1.6	212393 ☰	215873 ☰
20	3/4	15	70 (M)	5.2	26.9 x 1.6	214094 ☰	214132 ☰
		20	70 (M)	7.1	26.9 x 1.6	214096 ☰	210696 ☰
25	1	20	70 (M)	7.2	33.7 x 2.0	214097 ☰	214135 ☰
		25	70 (M)	12	33.7 x 2.0	209572 ☰	214138 ☰
32	1 1/4	25	90 (N)	8.9	42.4 x 2.0	214101 ☰	214139 ☰
		32	90 (N)	13.4	42.4 x 2.0	214103 ☰	214141 ☰
40	1 1/2	32	90 (N)	14.4	48.3 x 2.0	214104 ☰	214142 ☰
			130 (P)	20.2	48.3 x 2.0	222700 ☰	222721 ☰
		40	90 (N)	17.5	48.3 x 2.0	209440 ☰	214144 ☰
			130 (P)	23.8	48.3 x 2.0	222702 ☰	222723 ☰
50	2	40	90 (N)	18	60.3 x 2.0	210756 ☰	213561 ☰
			130 (P)	24.6	60.3 x 2.0	222703 ☰	222724 ☰
		50	90 (N)	28	60.3 x 2.0	214107 ☰	214146 ☰
			130 (P)	37	60.3 x 2.0	214108 ☰	214147 ☰
65	2 1/2	65	130 (P)	65	76.1 x 2.3	219623 ☰	219626 ☰
			225 (L)	62	76.1 x 2.3	20060573 ☰	20060607 ☰
80	3	80	130 (P)	100	88.9 x 2.3	239543 ☰	239579 ☰
			225 (L)	100	88.9 x 2.3	20060574 ☰	20060608 ☰
100	4	100	130 (P)	140	114.3 x 2.6	239559 ☰	239595 ☰
			225 (L)	140	114.3 x 2.6	20060575 ☰	20060609 ☰



Nominal diameter (port connection)		Seat size	Actuator size Ø	K _{vs} value	Connection MW x TW	Article no.	
						Seat seal	PTFE
DN	NPS						Stainless steel
DIN 11850 - 2 / DIN 11866 Reihe A / DIN EN 10357 Reihe A							
10	3/8	3	70 (M)	0.1	13.0 x 1.5	-	o. r.
		3	70 (M)	0.2	13.0 x 1.5	-	o. r.
		4	70 (M)	0.5	13.0 x 1.5	-	o. r.
		6	70 (M)	1.25	13.0 x 1.5	260632 ☰	357231 ☰
		8	70 (M)	2	13.0 x 1.5	300236 ☰	284179 ☰
		10	70 (M)	2.7	13.0 x 1.5	257412 ☰	208553 ☰
15	1/2	3	70 (M)	0.1	19.0 x 1.5	-	o. r.
		3	70 (M)	0.2	19.0 x 1.5	-	o. r.
		4	70 (M)	0.5	19.0 x 1.5	-	o. r.
		6	70 (M)	1.25	19.0 x 1.5	248881 ☰	367704 ☰
		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	3/4	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	29.0 x 1.5	209384 ☰	209089 ☰
32	1 1/4	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	1 1/2	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	53.0 x 1.5	214123 ☰	213411 ☰
			130 (P)	24.6	53.0 x 1.5	222714 ☰	222735 ☰
		50	90 (N)	28	53.0 x 1.5	211968 ☰	209185 ☰
			130 (P)	37	53.0 x 1.5	214125 ☰	214159 ☰
65	2 1/2	65	130 (P)	65	70.0 x 2.0	219625 ☰	219628 ☰
			225 (L)	62	70.0 x 2.0	20060577 ☰	20060610 ☰
80	3	80	130 (P)	100	85.0 x 2.0	239544 ☰	239580 ☰
			225 (L)	100	85.0 x 2.0	20060578 ☰	20060612 ☰
100	4	100	130 (P)	140	104.0 x 2.0	239560 ☰	239596 ☰
			225 (L)	140	104.0 x 2.0	20060580 ☰	20060613 ☰

o. r. = on request

Nominal diameter (port connection)	Seat size	Actuator size Ø	K _{vs} value	Connection Ø DS x WS	Operating pressure	Article no.	
						Seat seal	PTFE (VI) Stainless steel (IV)
ASME BPE / DIN 11866 Reihe C							
1/2	3	70 (M)	0.1	12.7 x 1.65	25 (IV)	-	o. r.
	3	70 (M)	0.2	12.7 x 1.65	-	-	o. r.
	4	70 (M)	0.5	12.7 x 1.65	25 (IV)	-	o. r.
	6	70 (M)	1.25	12.7 x 1.65	25 (IV)	226651 20	20001538 20
	8	70 (M)	2	12.7 x 1.65	25 (IV)	379940 20	216879 20
	10	70 (M)	2.7	12.7 x 1.65	25 (IV)	225463 20	313806 20
3/4	10	70 (M)	3.1	19.05 x 1.65	25 (IV)	241143 20	o. r.
	15	70 (M)	4.3	19.05 x 1.65	25 (IV)	335739 20	335741 20
1	10	70 (M)	3.2	25.4 x 1.65	25 (IV)	241633 20	242576 20
	15	70 (M)	5.2	25.4 x 1.65	25 (IV)	226329 20	242579 20
	20	70 (M)	7.1	25.4 x 1.65	16 (IV)	230405 20	216902 20
1 1/2	32	90 (N)	13.4	38.1 x 1.65	16 (IV)	230409 20	242587 20
		130 (P)	17.8	38.1 x 1.65	25 (IV)	242557 20	242589 20
2	40	90 (N)	17.5	50.8 x 1.65	12 (IV)	211655 20	242592 20
		130 (P)	23.8	50.8 x 1.65	25 (IV)	242561 20	242593 20
2 1/2	50	130 (P)	37	63.5 x 1.65	25 (20 ¹⁾ (IV)	335735 20	335737 20
3	65	130 (P)	65	76.2 x 1.65	16 (15 ¹⁾ (IV)	268682 20	350667 20
		225 (L)	62	76.2 x 1.65	-	20060581 20	20060615 20
4	80	130 (P)	110	101.6 x 2.11	10 (IV)	298386 20	o. r.
		225 (L)	115	101.6 x 2.11	-	20060582 20	20060616 20
	100	130 (P)	140	101.6 x 2.11	6 (IV)	275103 20	289251 20
		225 (L)	140	101.6 x 2.11	-	20060583 20	20060617 20

o. r. = on request

1.) According to the Pressure Equipment Directive 97/23/EC for compressible fluids of Group 1 (hazardous gases and vapours according to Article 3 No. 1.3 letter a first dash)

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		

10.7. Ordering chart clamp connection

Valve with flow direction below seat

Nominal diameter (port connection)		Seat size	Actuator size Ø	K _{vs} value	Connection MC x TC, CC	Article no.	
DN	NPS					PTFE	Stainless steel
DIN 32676 Reihe A							
15	½	15	70 (M)	4.3	19 × 1.5. 34	222593 ⚒	282208 ⚒
20	¾	20	70 (M)	7.1	23 × 1.5. 34	225647 ⚒	282209 ⚒
25	1	25	90 (N)	12.0	29 × 1.5. 50.5	222594 ⚒	282210 ⚒
32	1¼	32	90 (N)	13.4	35 × 1.5. 50.5	240415 ⚒	282211 ⚒
40	1½	40	130 (P)	23.8	41 × 1.5. 50.5	240351 ⚒	282212 ⚒
50	2	50	130 (P)	37.0	53 × 1.5. 64	282258 ⚒	282259 ⚒
DIN 32676 Reihe B							
15	½	15	70 (M)	4.3	21.3 × 1.6. 50.5	273974 ⚒	282213 ⚒
20	¾	20	70 (M)	7.1	26.9 × 1.6. 50.5	209438 ⚒	282214 ⚒
25	1	25	90 (N)	12.0	33.7 × 2.0. 50.5	241115 ⚒	282215 ⚒
40	1½	40	130 (P)	23.8	48.3 × 2.0. 64.0	209880 ⚒	284181 ⚒
50	2	50	130 (P)	37.0	60.3 × 2.0. 77.5	282261 ⚒	282263 ⚒

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		