DATA SHEET

Type 2060

INOX

Pneumatically operated 2/2-way angle seat valve with stainless steel actuator

- Flow optimised stainless steel body with various line connections
- Trusted components for the longest life time
- Stainless steel actuator suitable for demanding environments
- Modular accessory program with stroke limitation and position feedback available

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

Can be combined with

Type 8640
Modular valve island for pneumatics

Type 8644
AirLINE SP electropneumatic automation system

Type 8697
Pneumatic control unit for decentralised automation of process valves ELEMENT

Type description

The pneumatically operated angle seat valve with stainless steel actuators fulfils the demands of tough process environments. Unrivalled life time and sealing integrity is guaranteed by the trusted self-adjusting packing gland. The stainless steel actuator has been designed for tough applications. Laser welding ensures it is both cleanable and robust. With a ducted exhaust air port, the actuator can be operated isolated from the environment to guarantee an optimum life time and hygiene. High flow rates are attained with the optimised stainless steel angle seat body. As part of the Bürkert process valve range a large accessory program is available. All wetted parts comply with the EC Directive 1935/2004, variants with FDA conformity are available on request, also explosion proof variants are available.

Refer to both available data sheets for Type 2060:

- Pneumatically operated 2/2-way angle seat valve INOX (new actuator generation)
- Pneumatically operated 2/2-way angle seat valve with stainless steel actuator (previous actuator generation)

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1. General technical data

Product properties	
Dimensions	Further information can be found in chapter "5. Dimensions" on page 8.
Material	Further information can be found in chapter "4. Materials" on page 6.
Design	Angle seat valve
Nominal diameter (port connection)	DN 10...DN 80, NPS ⅜...NPS 3
Safety setting in case of power failure	Normally closed (control function A), normally open (control function B)
Flow direction	Against closing direction (under valve seat), with closing direction (over valve seat)
Performance data	
Operating pressure	0 bar(g)...16 bar(g), vacuum variants...- 0.9 bar(g) (option) (see "6.1. Fluidic data" on page 14)
Nominal pressure	PN 25 (DIN EN 1333), Class 150 (DIN EN 1759)
Pilot pressure	2...10 bar(g) (see "6.1. Fluidic data" on page 14)
Seat leakage	Leakage rate A (DIN EN 12266 - 1), seat seal: PTFE and PEEK, test medium: air
K_V value	1.6...140 m^3/h (see "6.1. Fluidic data" on page 14)
Medium data	
Medium	Steam, water, neutral gases, alcohols, oils, fuels, hydraulic fluids, salt solutions, alkalis, organic solvents
Medium temperature	- 40 °C...+ 230 °C (see "6.2. Operating limits" on page 21)
Viscosity	Max. 600 mm^2/s
Control medium	Air, neutral gases
Product connections	
Port Connection [1.]	
Threaded connection	G (DIN ISO 228 - 1) NPT (ASME B1.20.1) RC (ISO 7 - 1)
Welded connection	DIN EN ISO 1127 / ISO 4200 / DIN 11866 series B DIN 11850 - 2 / DIN 11866 series A ASME BPE / DIN 11866 series C SMS 3008
Clamp connection	DIN 32676 series B (pipe: ISO 4200) DIN 32676 series A (pipe: DIN 11850 - 2) ASME BPE
Pilot air port	
Actuator size Ø 32 (B)	M5 thread
Actuator size Ø 40 (C)...80 (F)	G ⅛ thread
Actuator size Ø 100 (G)...125 (H)	G ¼
Approvals and certificates	
Further information can be found in chapter "3. Approvals and conformities" on page 5.	
Material certificate	2.2, 3.1
Environment and installation	
Environmental factors	Protect the device from electromagnetic interference, UV radiation and, when used outdoors, from weather conditions.
Ambient temperature	- 10 °C...+ 130 °C (see "6.2. Operating limits" on page 21)
Degree of protection	IP65/67
Installation position	As required, preferably with actuator upright

1.) Others are available on request.

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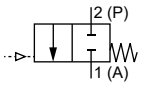
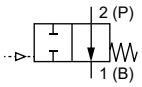
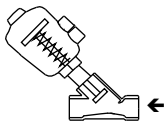
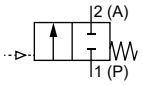
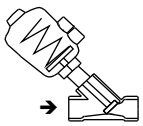
2. Control functions

⚠ WARNING

Risk of injury due to bursting pipes and bursting equipment when the flow is above the seat.
In the case of liquid media, water hammer can lead to the bursting of pipes and device.

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

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

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3. Approvals and conformities

3.1. General notes

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

3.2. Conformity

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

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

3.3. Standards

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

3.4. Explosion protection

Approval	Description
	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

Temperature class	T2	T3	T4
Maximum surface temperature	+ 300 °C	+ 200 °C	+ 135 °C
Ambient temperature	- 40 °C...+ 130 °C	- 40 °C...+ 130 °C	- 40 °C...+ 100 °C
Maximum medium temperature	+ 285 °C	+ 185 °C	+ 125 °C

Note: The ambient and medium temperature range may be limited by non-ex-relevant specifications. Observe the Operating Instructions.

3.5. Drinking water

Conformity	Description
H_2O	**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)

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3.6. Foods and beverages/Hygiene

Conformity	Description
FDA	**FDA – Code of Federal Regulations (valid for the variable code PL02, PL03)** 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.

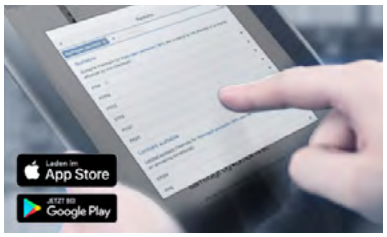
3.7. Others

TA Luft

Conformity	Description
TA Luft	**Technical instruction on air quality control (valid for the variable code PM01)**

4. Materials

4.1. Bürkert resistApp



Bürkert resistApp – Chemical resistance chart

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

Start chemical resistance check

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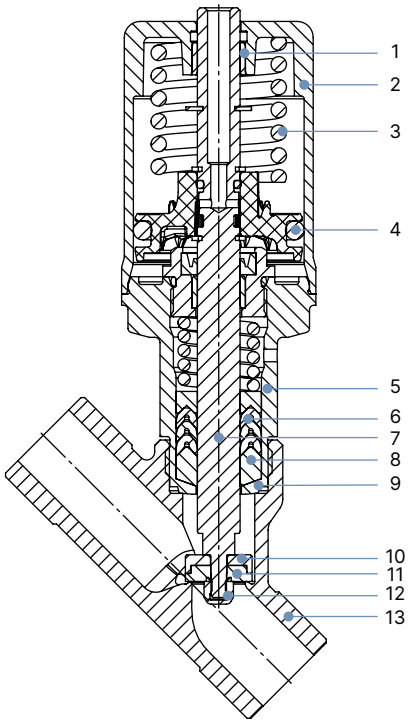
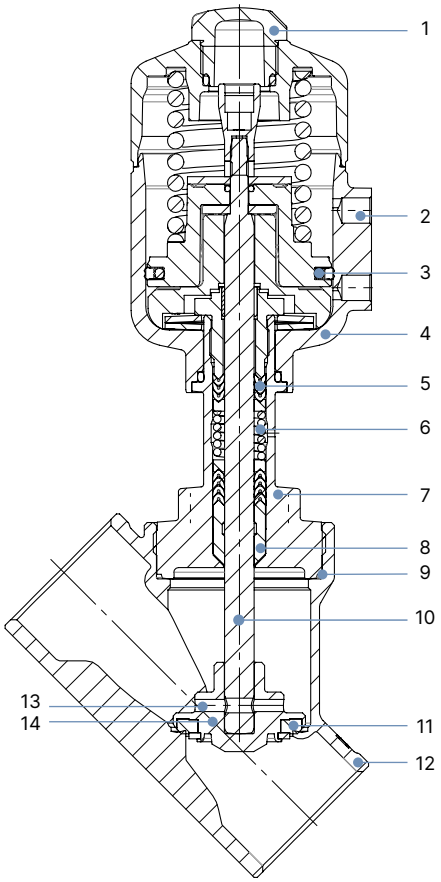
4.2. Material specifications

Actuator size 32 (B)



No.	Element	Material
1	Visual position indicator/Pilot air ports	Stainless steel 1.4104 Thread M5
2	Actuator casing	Stainless steel CF8
3	Spring	1.4310
4	Piston seal	FKM
5	Pipe	Stainless steel CF3M
6	Packing gland	PTFE V-rings (filled) with spring compensation
7	Spindle	Stainless steel 1.4404
8	Wiper	PTFE (filled)
9	Body seal	Graphite
10	Seal holder	Stainless steel 1.4404
11	Seat seal	PTFE
12	Dome nut	Stainless steel 1.4404
13	Body	Stainless steel CF3M

Actuator size 40 (C), 50 (D), 63 (E), 80 (F), 100 (G), 125 (H)



Nr.	Element	Valve body from stainless steel CF8	Valve body from stainless steel CF3M
1	Transparent cap	PSU	
2	Pilot air ports	Stainless steel CF8	
3	Piston seal	FKM	
4	Actuator	Stainless steel CF8	
5	Packing gland	PTFE V-rings (filled), with spring compensation	
6	Spring	1.4310	
7	Packing gland tube	Stainless steel CF8 Stainless steel CF3M	Stainless steel CF3M
8	Wiper	Actuator sizes (C)...(F): PTFE (filled) Actuator sizes (G) & (H): PEEK	
9	Housing seal	Graphit, PTFE (optional)	
10	Spindle	Stainless steel 1.4401 / 1.4404	
11	Pin	Stainless steel 1.4401 / 1.4404	
12	Valve body	Stainless steel CF8	Stainless steel CF3M
13	Pin	Stainless steel 1.4401 / 1.4404	
14	Swivel plate	Stainless steel CF8 / CF3M / 1.4401 / 1.4404	Stainless steel CF3M / 1.4401 / 1.4404

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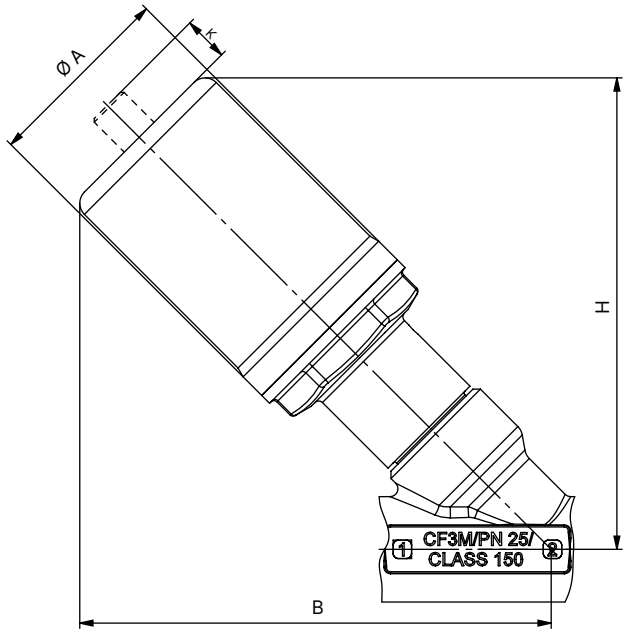
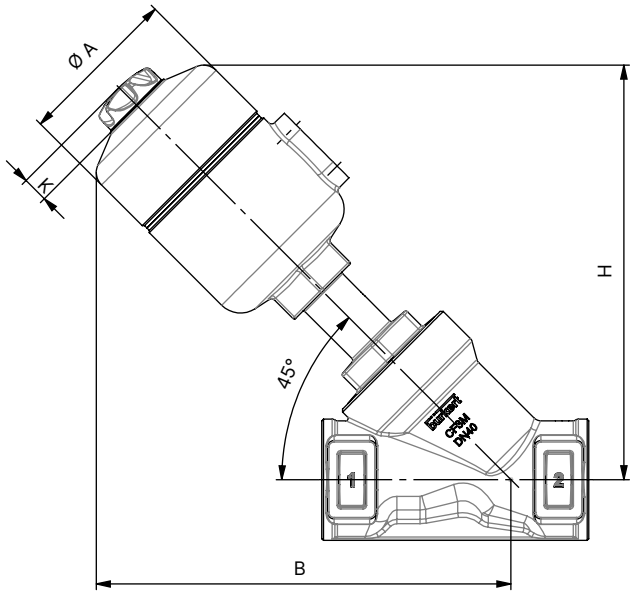
5. Dimensions

5.1. Actuator

Angle seat valve Type 2060

Note:
Dimensions in mm, unless otherwise stated

Actuator size 32 (B)	Actuator size 40 (D)...125 (H)
	

Nominal diameter (port connection)		Actuator size Ø	Ø A	B/H [1.]	K [1.]	P
DN	NPS					
10	⅜	32 (B)	36.4	89.4	8.6	M5
15	½	32 (B)	36.4	96	8.6	M5
		40 (C)	46.5	127	11	G ⅛
		50 (D)	59.9	145	11	G ⅛
20	¾	40 (C)	46.5	130	11	G ⅛
		50 (D)	59.9	150	11	G ⅛
		63 (E) [2.]	72.9	174	11	G ⅛
25	1	50 (D)	59.9	152	11	G ⅛
		63 (E) [2.]	72.9	178	11	G ⅛
		80 (F) [2.]	–	–	–	–
32	1¼	63 (E) [2.]	72.9	188	11	G ⅛
		80 (F) [2.]	–	–	–	–
		100 (G) [2.]	–	–	–	–
40	1½	63 (E) [2.]	72.9	191	11	G ⅛
		80 (F) [2.]	–	–	–	–
		100 (G) [2.]	–	–	–	–
		125 (H) [2.]	–	–	–	–
50	2	63 (E) [2.]	72.9	209	11	G ⅛
		80 (F) [2.]	–	–	–	–
		100 (G) [2.]	–	–	–	–
		125 (H) [2.]	–	–	–	–

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Nominal diameter (port connection)		Actuator size Ø	Ø A	B/H [1.]	K [1.]	P
DN	NPS					
65	2½	80 (F) [2.]	–	–	–	–
		100 (G) [2.]	–	–	–	–
		125 (H) [2.]	–	–	–	–
80	3	100 (G) [2.]	–	–	–	–
		125 (H) [2.]	–	–	–	–

1.) The dimensions for B, H and K are maximum dimensions and may be up to 6 mm less, depending on the connection orifice size and standard.
2.) On request

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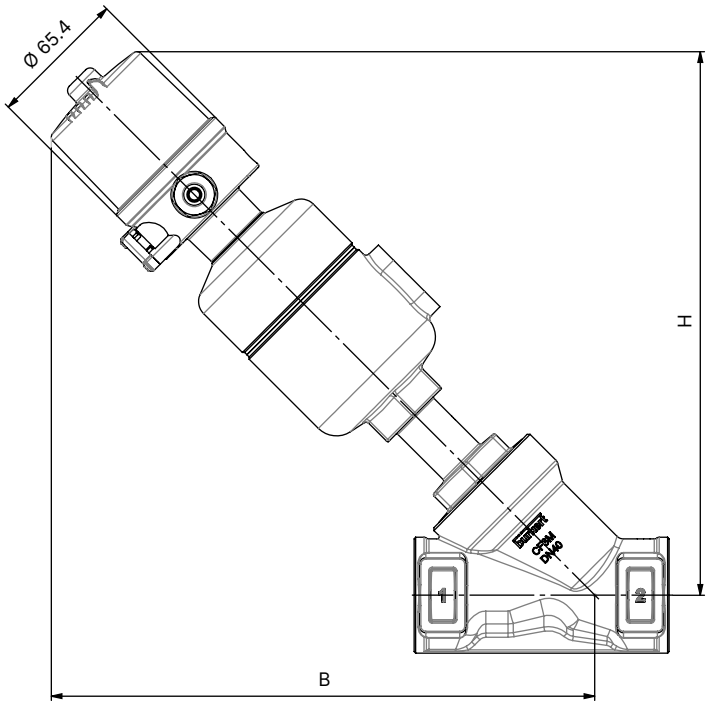
Valve system on/off INOX Type 8801-YV

Note:
Dimensions in mm, unless otherwise stated



Nominal diameter (port connection)		Actuator size Ø	B/H [1.]
DN	NPS		
15	½	40 (C)	198
		50 (D)	216
20	¾	40 (C)	201
		50 (D)	207
25	1	50 (D)	223
		63 (E) [2.]	242
		80 (F) [2.]	–
32	1¼	63 (E) [2.]	257
		80 (F) [2.]	–
		100 (G) [2.]	–
40	1½	63 (E) [2.]	260
		80 (F) [2.]	–
		100 (G) [2.]	–
		125 (H) [2.]	–
50	2	63 (E) [2.]	278
		80 (F) [2.]	–
		100 (G) [2.]	–
		125 (H) [2.]	–
65	2½	80 (F) [2.]	–
		100 (G) [2.]	–
		125 (H) [2.]	–
80	3	100 (G) [2.]	–
		125 (H) [2.]	–

1.) The dimensions for B, H and K are maximum dimensions and may be up to 6 mm less, depending on the connection orifice size and standard.
2.) On request

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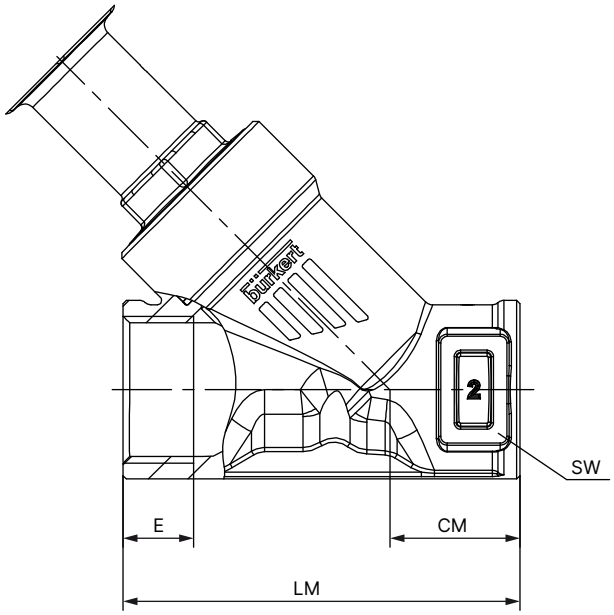
5.2. Body with threaded connection

Note:
Dimensions in mm, unless otherwise stated



Nominal diameter (port connection)		G (DIN ISO 228 - 1) NPT (ASME B1.20.1) RC (ISO 7 - 1)					
		E			CM	LM	SW
DN	NPS	G	NPT	RC			
10	⅜	12	10.3	10.1	18.5	65	–
15	½	14	13.7	13.2	24	65	27
20	¾	16	14.0	14.5	27	75	34
25	1	18	16.8	16.8	29.5	90	41
32	1¼	16	17.3	19.1	36	110	50
40	1½	18	17.3	19.1	35	120	55
50	2	24	17.6	23.4	45	150	70
65	2½	26	23.7	26.7	57	185	85
80	3	28	–	–	71	220	100

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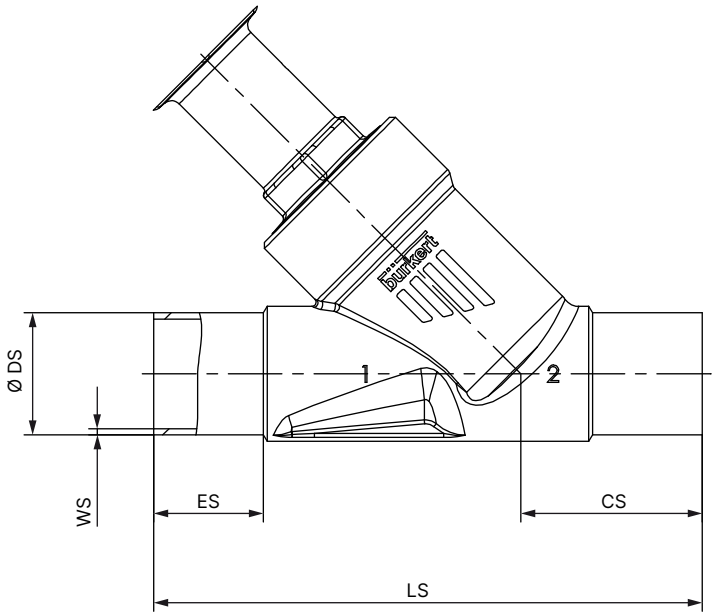
5.3. Body with welded connection



Nominal diameter (port connection)	DIN EN ISO 1127 / ISO 4200 / DIN 11866 series B					DIN 11850 - 2 / DIN 11866 series A				
DN	ES	CS	LS	Ø DS	WS	ES	CS	LS	Ø DS	WS
10	20	26	80	17.2	1.6	20	26	80	13	1.5
15	19	34	100	21.3	1.6	19	34	100	19	1.5
20	20	39	115	26.9	1.6	20	39	115	23	1.5
25	26	43	130	33.7	2.0	26	43	130	29	1.5
32	26	45	145	42.4	2.0	26	45	145	35	1.5
40	26	49	160	48.3	2.0	26	49	160	41	1.5
50	26	50	175	60.3	2.0	26	50	175	53	1.5
65	26	50	210	76.1	2.3	26	50	210	70	2
80	26	88.5	266	88.9	2.3	26	88.5	266	85	2

Nominal diameter (port connection)	ASME BPE / DIN 11866 series C				
NPS	ES	CS	LS	Ø DS	WS
½	30	46	135	12.7	1.65
¾	30	52	145	19.05	1.65
1	30	51	152	25.4	1.65
1½	30	60	182	38.1	1.65
2	30	64	210	50.8	1.65
2½	26	56	230	63.5	1.65
3	26	88.5	266	76.2	1.65

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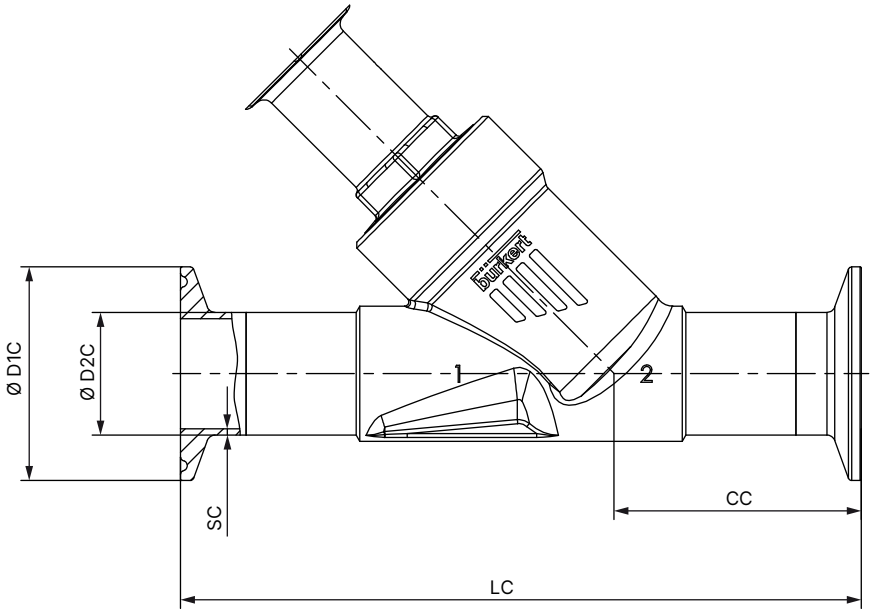
5.4. Body with clamp connection



Nominal diameter (port connection)	Clamp: DIN 32676 series B Pipe: DIN EN ISO 1127 / ISO 4200 / DIN 11866 series B					Clamp: DIN 32676 series A Pipe: DIN 11850 - 2 / DIN 11866 series A				
DN	**LC**	**CC**	**Ø D1 C**	**Ø D2 C**	**SC**	**LC**	**CC**	**Ø D1 C**	**Ø D2 C**	**SC**
15	156	49.0	50.5	21.3	1.6	130	49.5	34.0	19	1.5
20	150	56.5	50.5	26.9	1.6	150	57.0	34.0	23	1.5
25	160	58.0	50.5	33.7	2.0	160	58.5	50.5	29	1.5
32	200	57.5	50.5	42.4	2.0	180	58.0	50.5	35	1.5
40	200	69.0	64.0	48.3	2.0	200	69.5	50.5	41	1.5
50	230	77.5	77.5	60.3	2.6	230	78.0	64.0	53	1.5

Nominal diameter (port connection)	Clamp: ASME BPE Pipe: ASME BPE / DIN 11866 series C				
NPS	**LC**	**CC**	**Ø D1 C**	**Ø D2 C**	**SC**
½	130	49.0	25.0	12.7	1.65
¾	150	56.5	25.0	19.05	1.65
1	160	58.0	50.5	25.4	1.65
1½	200	69.0	50.5	38.1	1.65
2	230	77.5	64.0	50.8	1.65

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6. Performance specifications

6.1. Fluidic data

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

Note:

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

Threaded port connection G, NPT and RC

Nominal diameter (port connection)		Seat size	Actuator size Ø	K_V value water	Pilot pressure min.	Operating pressure max.		
						CF A		CF B
						Seat seal		
						PTFE	PEEK	PTFE
DN	NPS	DN	[mm]	[m^3/h]	[bar(g)]	[bar(g)]	[bar(g)]	[bar(g)]
10	⅜	10	32 (B)	2.4	5.5	16	–	16
8	¼	15	32 (B)	2.6	5.5	11	–	16
			40 (C)	2.6	5.3	16	–	16
			50 (D)	2.6	3.7	16	–	16
			63 (E) 2.)	2.6	4.5	–	16	–
10	⅜		32 (B)	4.7	5.5	11	–	16
			40 (C)	4.7	5.3	16	–	16
			50 (D)	5	3.7	16	–	16
			63 (E) 2.)	5.4	4.5	–	16	–
15	½		32 (B)	4.7	5.5	11	–	16
			40 (C)	4.7	5.3	16	–	16
			50 (D)	5	3.7	16	–	16
			63 (E) 2.)	5.4	4.5	–	16	–
20	¾	20	40 (C)	8.4	5.3	11	–	16
			50 (D)	10	3.7	11	–	16
			63 (E) 2.)	11	4.5	16	16	16
25	1	25	50 (D)	15	3.7	5.2	–	16
			63 (E) 2.)	19	4.5	11	10	16
			80 (F) 2.)	19	5	16	16	16
32	1¼	32	63 (E) 2.)	29	4.5	6	6	16
			80 (F) 2.)	30	5	14	11.5	16
			100 (G) 2.)	32	4.4	16	16	–
40	1½	40	63 (E) 2.)	38	4.5	4	4	16
			80 (F) 2.)	40	5	9	8	16
			100 (G) 2.)	47	4.4	12.5	11.5	16
			125 (H) 2.)	46	4.1	16	16	–
50	2	50	63 (E) 2.)	44	4.5	2.5	2	13
			80 (F) 2.)	49	5	6	4.5	16
			100 (G) 2.)	62	4.4	7.2	6.5	16
			125 (H) 2.)	62	5.7	16	16	–
65	2½	65	80 (F) 2.)	74	5	3.5	–	15
			100 (G) 2.)	91	4.4	4.6	–	15
			125 (H) 2.)	91	5.7	12	10	16 (15) 1.)
80	3	80	125 (H) 2.)	140	5.7	7.5	6.5	16 (12.5) 1.)

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

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Welded connection DIN 11850 series 2, DIN 11866 series A, DIN EN 10357 series A

Nominal diameter (port connection)		Seat size	Actuator size Ø	K_V value water	Pilot pressure min.	Operating pressure max.		
						CF A		CF B
						Seat seal		
						PTFE	PEEK	PTFE
DN	NPS	DN	[mm]	[m³/h]	[bar(g)]	[bar(g)]	[bar(g)]	[bar(g)]
10	⅜	10	32 (B)	2.4	5.5	16	–	16
10	⅜	15	32 (B)	2.5	5.5	11	–	16
			40 (C)	2.5	5.3	16	–	16
			50 (D)	2.5	3.7	16	–	16
			63 (E) 2.)	2.5	4.5	–	16	–
15	½	15	32 (B)	4.7	5.5	11	–	16
			40 (C)	4.7	5.3	16	–	16
			50 (D)	5	3.7	16	–	16
			63 (E) 2.)	5.4	4.5	–	16	–
20	¾	20	40 (C)	8.4	5.3	11	–	16
			50 (D)	10	3.7	11	–	16
			63 (E) 2.)	11	4.5	16	16	16
25	1	25	50 (D)	14	3.7	5.2	–	16
			63 (E) 2.)	19	4.5	11	10	16
			80 (F) 2.)	19	5	16	16	16
32	1¼	32	63 (E) 2.)	26	4.5	6	6	16
			80 (F) 2.)	26	5	14	11.5	16
			100 (G) 2.)	30	4.4	16	16	–
40	1½	40	63 (E) 2.)	33	4.5	4	4	16
			80 (F) 2.)	35	5	9	8	16
			100 (G) 2.)	41	4.4	12.5	11.5	16
			125 (H) 2.)	40	4.1	16	16	–
50	2	50	63 (E) 2.)	44	4.5	2.5	2	13
			80 (F) 2.)	49	5	6	4.5	16
			100 (G) 2.)	60	4.4	7.2	6.5	16
			125 (H) 2.)	60	5.7	16	16	–
65	2½	65	80 (F) 2.)	74	5	3.5	2	15
			100 (G) 2.)	91	4.4	4.6	3.5	14
			125 (H) 2.)	91	5.7	12	10	16 (15) 1.)
80	3	80	100 (G) 2.)	140	4.4	–	2	9
			125 (H) 2.)	140	5.7	7.5	6.5	16 (12.5) 1.)

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

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Welded connection ISO 4200, DIN EN ISO 1127, DIN 11866 series B / flange end DIN EN 1092 - 1 (PN 25)

Nominal diameter (port connection)		Seat size	Actuator size Ø	K_v value water	Pilot pressure min.	Operating pressure max.		
						CF A		CF B
						Seat seal		
						PTFE	PEEK	PTFE
OD [mm]	NPS	DN	[mm]	[m³/h]	[bar(g)]	[bar(g)]	[bar(g)]	[bar(g)]
17.2	–	10	32 (B)	2.4	5.5	16	–	16
13.5		15	32 (B)	2.5	5.5	11	–	16
			40 (C)	2.5	5.3	16	–	16
			50 (D)	2.5	3.7	16	–	16
			63 (E) 2.)	2.5	4.5	–	16	–
17.2		15	32 (B)	4.7	5.5	11	–	16
			40 (C)	4.7	5.3	16	–	16
			50 (D)	5	3.7	16	–	16
			63 (E) 2.)	5.4	4.5	–	16	–
21.3		15	32 (B)	4.7	5.5	11	–	16
			40 (C)	4.7	5.3	16	–	16
			50 (D)	5	3.7	16	–	16
			63 (E) 2.)	5.4	4.5	–	16	–
26.9		20	40 (C)	8.4	5.3	11	–	16
			50 (D)	10	3.7	11	–	16
			63 (E) 2.)	11	4.5	16	16	16
33.7		25	50 (D)	15	3.7	5.2	–	16
			63 (E) 2.)	19	4.5	11	10	16
			80 (F) 2.)	19	5	16	16	16
42.4		32	63 (E) 2.)	29	4.5	6	6	16
			80 (F) 2.)	30	5	14	11.5	16
			100 (G) 2.)	32	4.4	16	16	–
48.3		40	63 (E) 2.)	38	4.5	4	4	16
			80 (F) 2.)	40	5	9	8	16
			100 (G) 2.)	47	4.4	12.5	11.5	16
			125 (H) 2.)	46	4.1	16	16	–
60.3		50	63 (E) 2.)	44	4.5	2.5	2	13
			80 (F) 2.)	49	5	6	4.5	16
			100 (G) 2.)	62	4.4	7.2	6.5	16
			125 (H) 2.)	62	5.7	16	16	–
76.1		65	80 (F) 2.)	74	5	3.5	2	15
			100 (G) 2.)	91	4.4	4.6	3.5	14
			125 (H) 2.)	91	5.7	12	10	16 (15) 1.)
88.9		80	100 (G) 2.)	140	4.4	–	2	9
			125 (H) 2.)	140	5.7	7.5	6.5	16 (12.5) 1.)

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

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Welded connection ASME BPE, DIN 11866 series C / clamp ASME BPE

Nominal diameter (port connection)		Seat size	Actuator size Ø	K_V value water	Pilot pressure min.	Operating pressure max.		
						CF A		CF B
						Seat seal		
						PTFE	PEEK	PTFE
DN	NPS	DN	[mm]	[m³/h]	[bar(g)]	[bar(g)]	[bar(g)]	[bar(g)]
15	½	10	32 (B)	1.6	5.5	16	–	16
15	½	15	32 (B)	1.6	5.5	11	–	16
			40 (C)	1.6	5.3	16	–	16
			50 (D)	1.6	3.7	16	–	16
			63 (E) 2.)	1.6	4.5	–	16	–
20	¾	20	40 (C)	6.9	5.3	11	–	16
			50 (D)	8.4	3.7	11	–	16
			63 (E) 2.)	9.6	4.5	16	16	16
25	1	25	50 (D)	13	3.7	5.2	–	16
			63 (E) 2.)	16	4.5	11	10	16
			80 (F) 2.)	16	5	16	16	16
40	1½	40	63 (E) 2.)	32	4.5	4	4	16
			80 (F) 2.)	35	5	9	8	16
			100 (G) 2.)	41	4.4	12.5	11.5	16
			125 (H) 2.)	40	4.1	16	16	–
50	2	50	63 (E) 2.)	44	4.5	2.5	2	13
			80 (F) 2.)	49	5	6	4.5	16
			100 (G) 2.)	58	4.4	7.2	6.5	16
			125 (H) 2.)	58	5.7	16	16	–
65	2½	65	80 (F) 2.)	74	5	3.5	–	15
			100 (G) 2.)	85	4.4	4.6	3.5	14
			125 (H) 2.)	85	5.7	12	10	16 (15) 1.)
80	3		100 (G) 2.)	91	4.4	4.6	3.5	14
			125 (H) 2.)	91	5.7	12	10	16 (15) 1.)
80	3	80	100 (G) 2.)	140	4.4	–	2	9
			125 (H) 2.)	140	5.7	5.7	7.5	16 (12.5) 1.)

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

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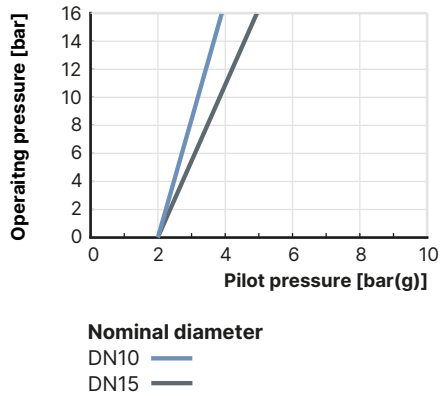
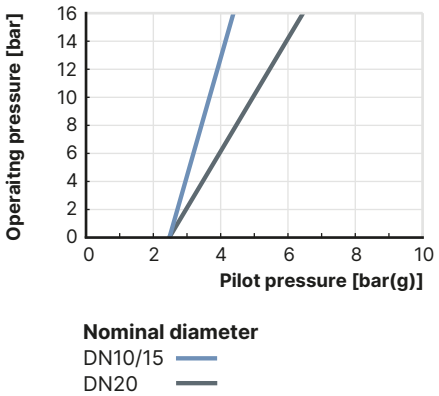
Pilot pressure diagrams with flow direction below seat (control function B, seat seal: PTFE)

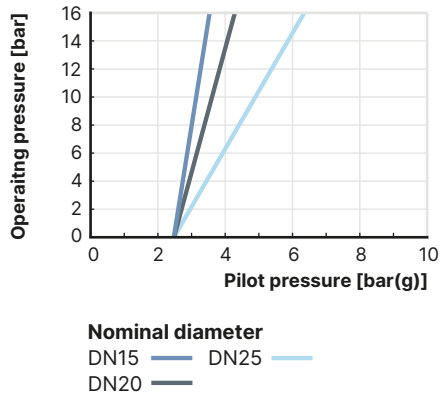
Actuator size Ø 32 mm (B)
Maximum control pressure 7 bar(g)



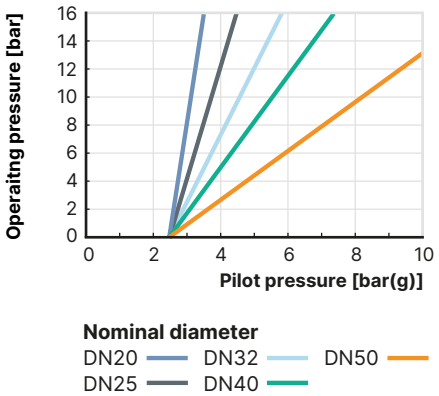
Actuator size Ø 40 mm (C)
Maximum control pressure 10 bar(g)



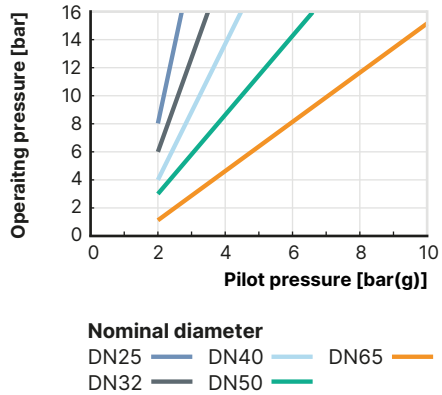
Actuator size Ø 50 mm (D)
Maximum control pressure 10 bar(g)



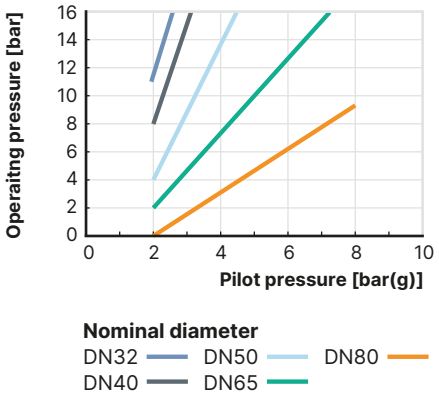
Actuator size Ø 63 mm (E) [1.)]
Maximum control pressure 10 bar(g)



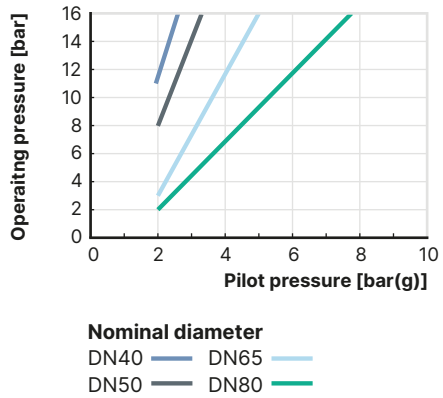
Actuator size Ø 80 mm (F) [1.)]
Maximum control pressure 10 bar(g)



Actuator size Ø 100 mm (G) [1.)]
Maximum control pressure 8 bar(g)



Actuator size Ø 125 mm (H) [1.)]
Maximum control pressure 8 bar(g)



1.) On request

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

Note:

- K_V value [m^3/h]: measured with water at + 20 °C, 1 bar(g) pressure at valve inlet and free outlet
- K_V value water: see **"Overview of fluidic data for flow below seat (for liquids, steam and gases)" on page 14**
- Pressure data [bar(g)]: overpressure to atmospheric pressure

⚠ WARNING

Risk of injury due to bursting pipes and bursting equipment when the flow is above the seat. In the case of liquid media, water hammer can lead to the bursting of pipes and device.

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

Nominal diameter (port connection)		Actuator size Ø	Operating pressure max. + 185 °C
			CF A
			PTFE
DN	NPS	[mm]	[bar(g)]
10	⅜	40 (C) [1.)]	16
		50 (D) [1.)]	16
15	½	40 (C) [1.)]	16
		50 (D) [1.)]	16
20	¾	40 (C) [1.)]	16
		50 (D) [1.)]	16
25	1	50 (D) [1.)]	16
		63 (E) [1.)]	16
32	1¼	63 (E) [1.)]	16
40	1½	63 (E) [1.)]	16
		80 (F) [1.)]	16
50	2	63 (E) [1.)]	16
		80 (F) [1.)]	16
65	2½	80 (F) [1.)]	14
		100 (G) [1.)]	15

1.) On request

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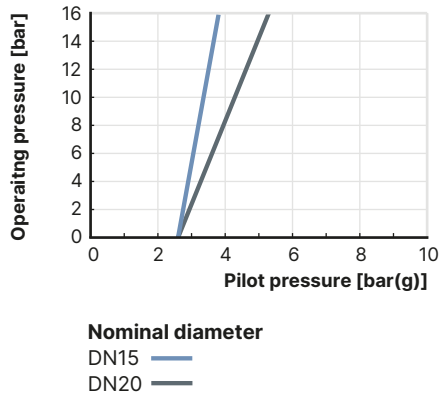
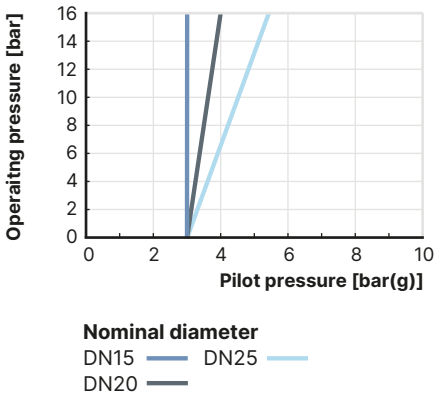
Pilot pressure diagram with flow direction above seat (control function A, valve seat seal: PTFE)

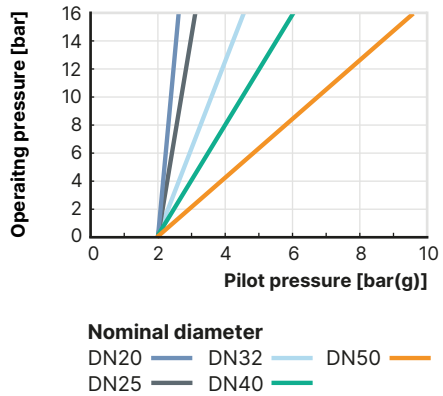
Actuator size Ø 40 mm [1.)]
Maximum control pressure 7 bar(g)



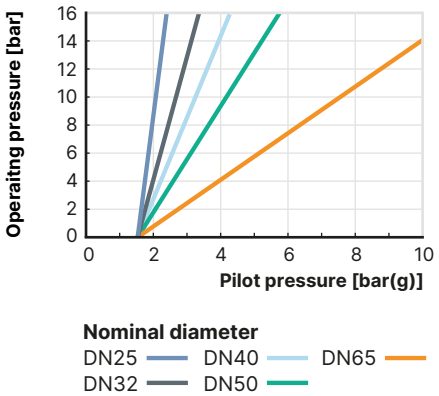
Actuator size Ø 50 mm [1.)]
Maximum control pressure 7 bar(g)



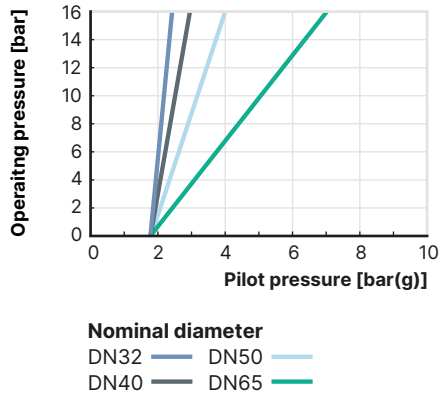
Actuator size Ø 63 mm [1.)]
Maximum control pressure 10 bar(g)



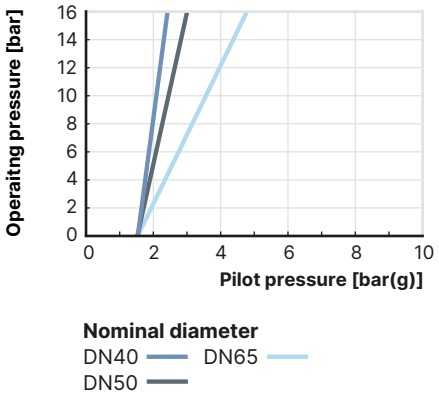
Actuator size Ø 80 mm [1.)]
Maximum control pressure 10 bar(g)



Actuator size Ø 100 mm [1.)]
Maximum control pressure 7 bar(g)



Actuator size Ø 125 mm [1.)]
Maximum control pressure 7 bar(g)

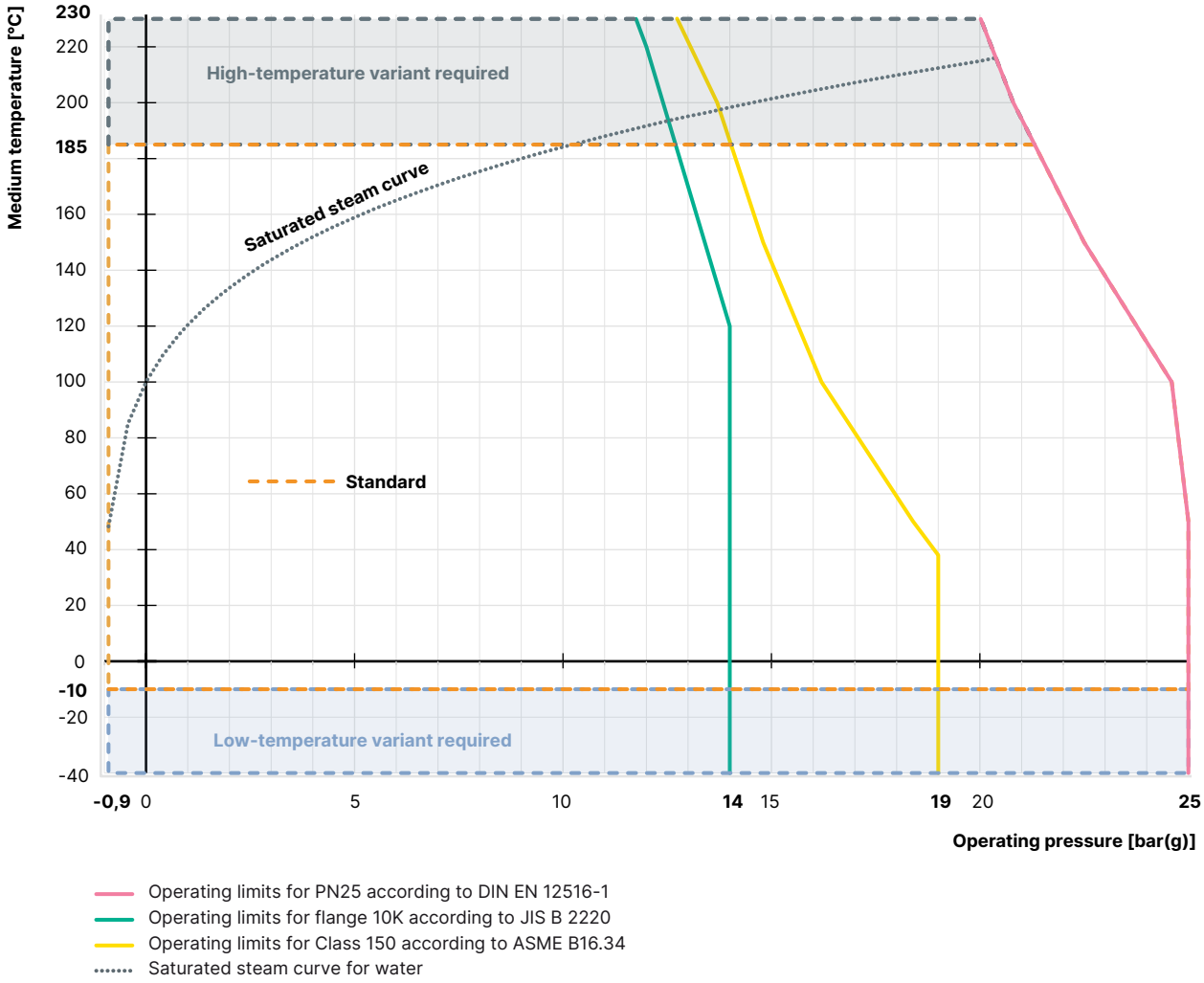


1.) On request

6.2. Operating limits

Operating limits for medium temperature and operating pressure

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



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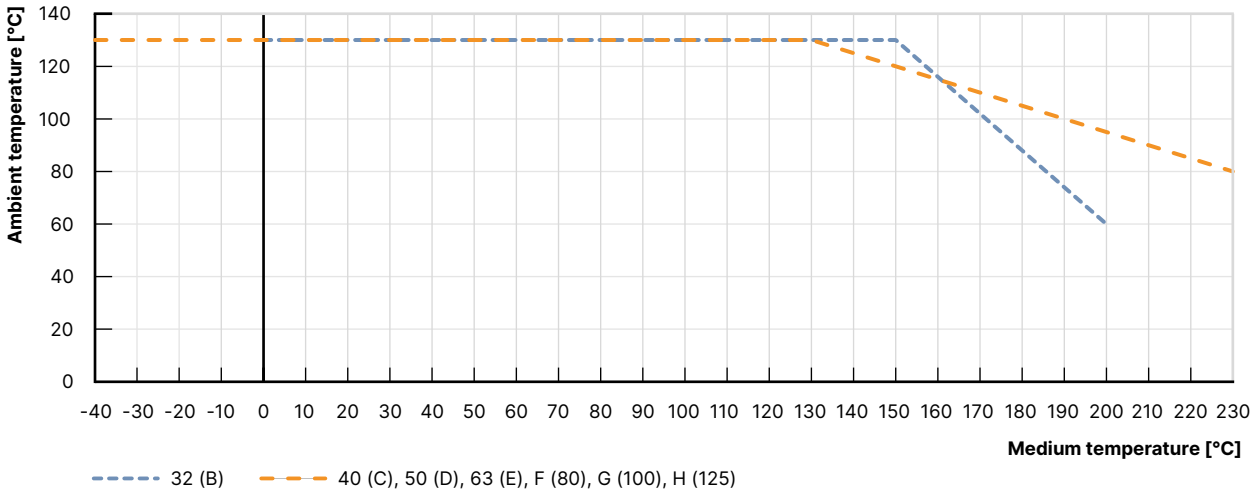
Operating limits for ambient and medium temperature

Stainless steel actuators



Operating limits for optional variants

High-temperature variant
Thanks to an adaption of the packing gland and seat seal in PEEK, this variant is suitable for applications with steam, neutral gases and other heat transfer media up to + 230 °C.

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

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

Low-temperature variant
Suitable for minimum medium temperatures down to - 40 °C

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7. Product accessories

Electric position feedback indicator

Type 8697 ▸ Actuator size Ø 40 (C)...125 (H)

The position feedback Type 8697 is designed for integrated mounting on CLASSIC series process valves, suiting the requirements of hygienic process environments. Mechanical or inductive limit switches detect the valve position.

Features

- Compact design
- LED position indicator
- Mechanical or inductive proximity switch for end position registering
- Easy-to-clean clean chemically resistant housing featuring IP65/IP67, 4X Rating
- Optionally intrinsically safe variant according to ATEX/IECEx

Customer benefits

- Easy and quick installation
- Minimised space requirement in the plant piping for more flexibility in plant design

Adaptation for proximity switch

Type 2XXX ▸

Various options for the use of inductive proximity switches are available for the CLASSIC series actuators:

- Nipple
- Support bracket, 1-fold
- Support bracket, 2-fold

Plunger valve 3/2-way direct acting

Type 7012 ▸ for Actuator size Ø 40 (C)...63 (E), Type 6014 ▸ for Actuator size Ø 50 (D)...125 (H)

For easy direct mounting to a pneumatic actuator, a banjo connection with banjo bolt is the ideal solution. An optional manual override allows fast commissioning and optimum maintenance.

In conjunction with a cable plug according to DIN EN 175301-803 Form A or B, the valves meet protection class IP65.

Features

- High reliability
- Resistant according to IP65

Customer benefits

Easy and quick installation

Stroke limiter

Type 2XXX ▸

Stroke limitations can be used to limit the minimum and maximum flow rate of the valves.

Different variants are available:

- Maximum stroke limitation
- Maximum and minimum stroke limitation with optical position indicator

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8. Networking and combination with other Bürkert products

The **angled seat valve Type 2060** can be combined with the **position feedback indicator Type 8697** to form the **valve system on/off CLASSIC Type 8801-YV**.

Note:

- For the configuration of further valve systems use the **Product Enquiry Form** (see "9.3. Bürkert Product Enquiry Form" on page 25).
- You order two components and receive a completely assembled and tested valve.

Angle seat valve	Position feedback indicator	Valve system on/off CLASSIC
Type 2060 ▸ Welded connection	**Type 8697** ▸ Electric position feedback indicator for process valves	**Type 8801-YV** ▸ Valve system on/off CLASSIC with decentralised automation

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9. Ordering information

9.1. Bürkert eShop

Bürkert eShop – Easy ordering and quick delivery

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

Order online now

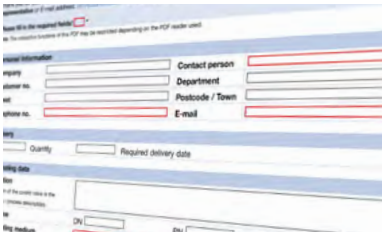
9.2. Bürkert product filter

Bürkert product filter – Get quickly to the right product

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

Try out our product filter

9.3. Bürkert Product Enquiry Form



Bürkert Product Enquiry Form – Your enquiry quickly and compactly

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

Fill out the form now

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