DATA SHEET

Type 2920

Manually operated 2/2-way angle seat valve

- High flow rates
- Long service life
- Robust actuator with optional stroke limitation and locking
- Flow-optimised stainless steel valve body with socket, clamp or welded connection

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

Can be combined with

Type 2101
Pneumatically operated 2/2-way globe valve ELEMENT for decentralised automation

Type 2000
Pneumatically operated 2/2-way angle seat valve CLASSIC

Type 2921
Manually operated 2/2-way globe valve

Type 2961
Manually operated 2-way globe control valve

Type 8801
On/off valve systems ELEMENT with decentralised automation – overview

Type 8840
Modular process valve cluster – distributor and collector

Type description

The Type 2920 angle seat valve consists of a manual actuator and a 2-way body made of high-quality stainless steel. With a flow-optimised valve body, the manually operated valve offers diverse usage options to shut off both neutral and aggressive gaseous and liquid media. The tried-and-tested self-adjusting packing gland guarantees optimal tightness and therefore enables low-maintenance operation, even at high switching cycles. Depending on the application, the soft PTFE or PEEK seal ensures a reliable valve seat seal, even under challenging operating conditions.

The actuator is made of high-quality plastic and is suitable for use in demanding environments. It possesses a visual position indicator and can be optionally equipped with stroke limitation and locking.

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Visit product website

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1. General technical data

Product properties	
Dimensions	Further information can be found in chapter "4. Dimensions" on page 7
Material	Further information can be found in chapter "3. Materials" on page 6
Design	Angle seat valve on/off
Nominal diameter	DN 10...DN 80, NPS ⅜...NPS 3
Flow direction	Flow to open (below seat)
Performance data	
Operating pressure	0 bar(g)...25 bar(g) (see "5.1. Fluidic data" on page 11)
Nominal pressure	PN 25 (DIN EN 1333), Class 150 (DIN EN 1759)
Seat leakage	Leakage rate A (DIN EN 12266 - 1), seat seal PTFE and PEEK, test medium air (see "5.1. Fluidic data" on page 11)
K_V value	1.6...140 m³/h (see "5.1. Fluidic data" on page 11)
Medium data	
Operating medium	Steam, water, neutral gases, alcohols, oils, fuels, hydraulic fluids, salt solutions, alkalis, organic solvents
Medium temperature	- 40 °C...+ 230 °C (see "5.2. Operating limits" on page 13)
Viscosity	Max. 600 mm²/s
Product connections	
Port connection	
Threaded connection	G (DIN ISO 228 - 1) NPT (ASME B1.20.1) RC (ISO 7 - 1)
Welded connection	DIN EN ISO 1127 / ISO 4200 / DIN 11866 series B DIN 11850 - 2 / DIN 11866 series A ASME BPE / DIN 11866 series C SMS 3008
Clamp connection	DIN 32676 series B (pipe: ISO 4200) DIN 32676 series A (pipe: DIN 11850 - 2) ASME BPE
Approvals and conformities	
Further information can be found in chapter "2. Approvals and conformities" on page 4	
Environment and installation	
Ambient temperature	- 10 °C...+ 60 °C
Installation position	As required, preferably with actuator upright

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2. Approvals and conformities

2.1. 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.

2.2. 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

2.3. 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.

2.4. 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.

2.5. 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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2.6. 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.
USP	**United States Pharmacopeial Convention (USP) (valid for the variable code PL04)** All wetted materials are biocompatible 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.

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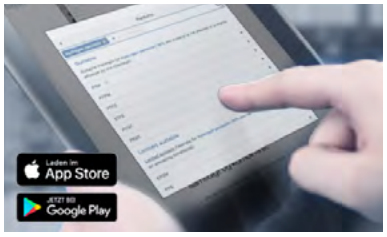
3. Materials

3.1. Bürkert resistApp

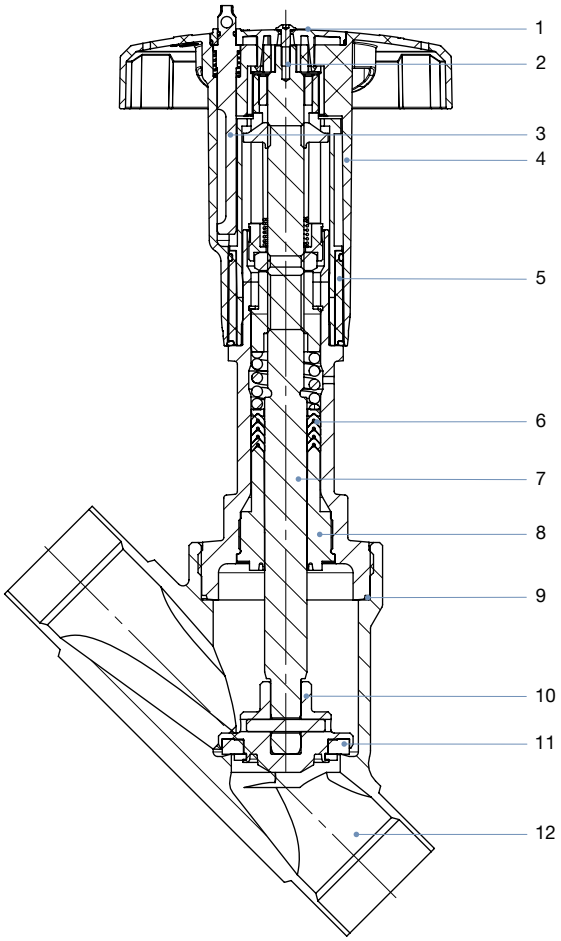


Bürkert resistApp – Chemical resistance chart

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

3.2. Material specifications



No.	Element	Material
1	Cover	Polyamide (PA)
2	Screw	Stainless steel 1.4301
3	Lock pin	Stainless steel 1.4305
4	Handwheel	Polyphenylene sulfide (PPS)
5	Optical position indicator with scale	Polyamide (PA)
6	Packing gland	PTFE V-rings (filled), with spring compensation
7	Spindle	Stainless steel 1.4401 (316)/1.4404 (316L)
8	Spindle guide	DN 15...DN 50: PEEK DN 65...DN 80: Stainless steel 1.4401 (316)/1.4404 (316L)
9	Body seal	Graphite
10	Swivel plate	Stainless steel 1.4401 (316)/1.4404 (316L)
11	Seat seal (optional)	PTFE or PEEK
12	Valve body	Stainless steel 316L/CF3M

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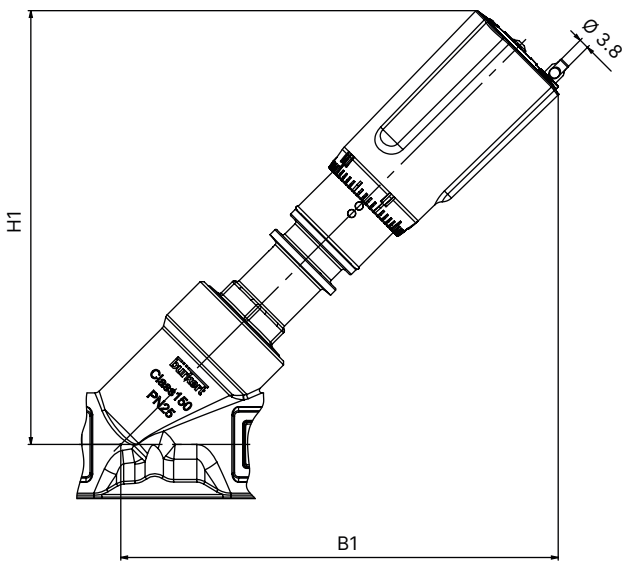
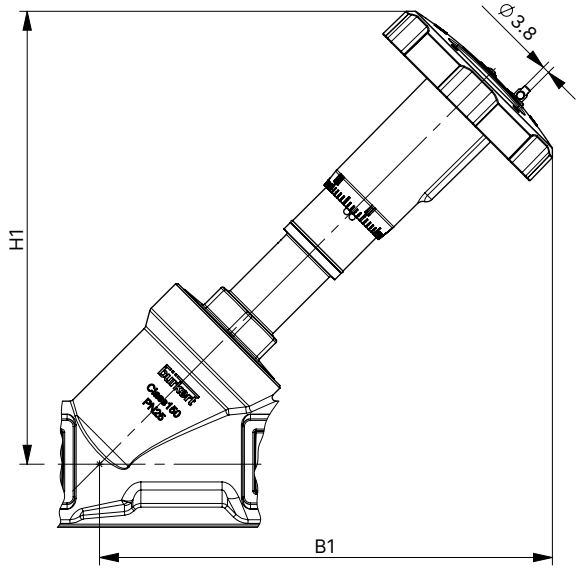
4. Dimensions

4.1. Actuator

Note:
Dimensions in mm, unless otherwise stated

Handwheel diameter 45 mm (S)	Handwheel diameter 110 mm (M) and 160 mm (L)
	

Nominal connection size (pipe)		Handwheel diameter Ø	B1 [1.]	H1 [1.]
DN	NPS	[mm]		
15	½	45 (S)	148	148
20	¾	45 (S)	154	154
25	1	45 (S)	163	163
32	1 ¼	45 (S)	171	171
40	1 ½	45 [2.] (S), 110 (M)	224	224
50	2	110 (M)	241	241
65	2 ½	160 (L)	290	290
80	3	160 (L)	308	310

1.) The dimensions for B and H are maximum dimensions and may be up to 6 mm less, depending on the nominal diamenter and standard.
2.) At an operating pressure of less than 16 bar

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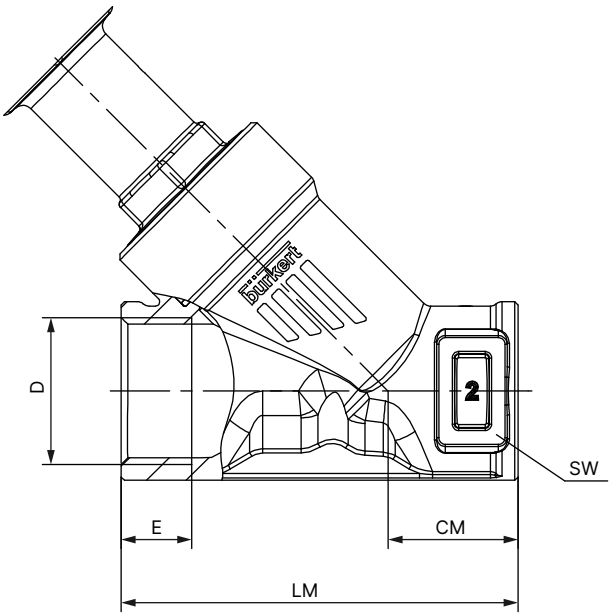
4.2. Body with threaded connection

Note:
Dimensions in mm, unless otherwise stated



Nominal diameter (pipe)	G (DIN ISO 228-1), NPT (ASME B 1.20.1), Rc (ISO7-1)						
	D	E			CM	LM	SW
DN	NPS	[G]	[NPT]	[Rc]			
15	½	14	13.7	13.2	24	65	27
20	¾	16	14.0	14.5	27	75	34
25	1	18	16.8	16.8	29.5	90	41
32	1¼	16	17.3	19.1	36	110	50
40	1½	18	17.3	19.1	35	120	55
50	2	24	17.6	23.4	45	150	70
65	2½	26	23.7	26.7	57	185	85
80	3	28	–	–	71	220	100

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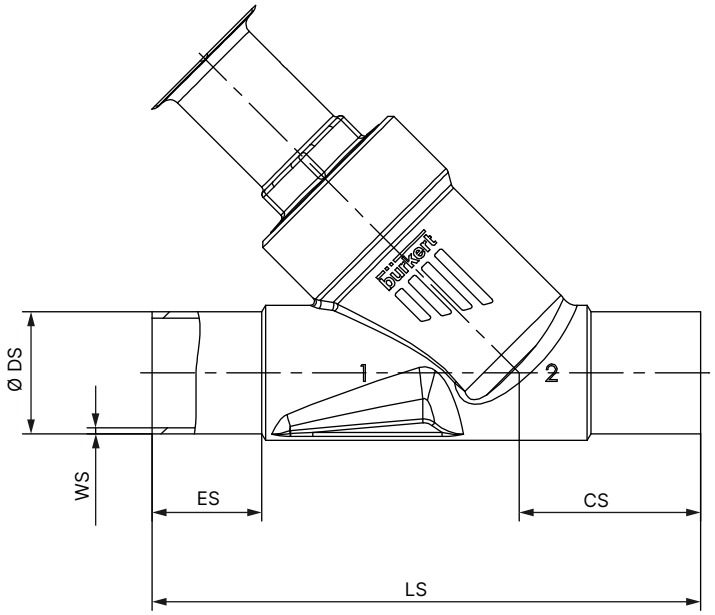
4.3. Body with welded connection

Note:
Dimensions in mm, unless otherwise stated



Nominal diameter (pipe)	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**
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 (pipe)	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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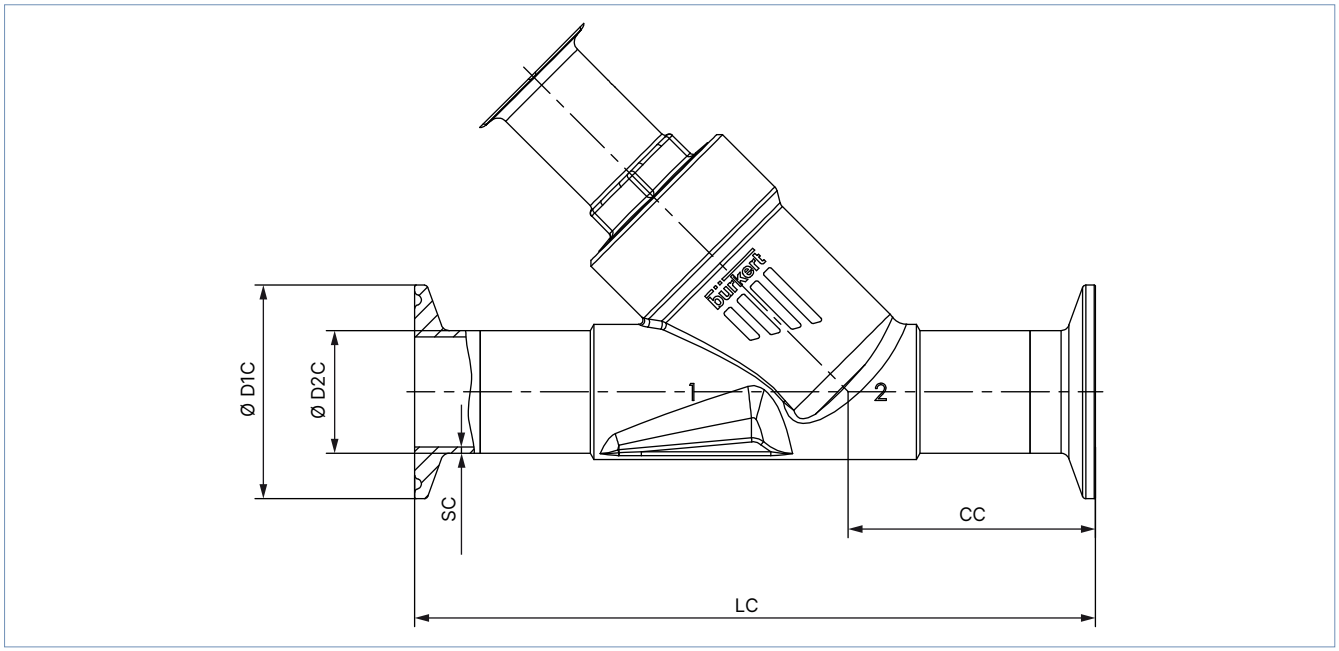
4.4. Body with clamp connection

Note:
Dimensions in mm, unless otherwise stated



Nominal diameter (pipe)	Clamp: DIN 32676 series B Pipe: DIN EN ISO 1127 ISO 4200 DIN 11866 series B					Clamp: DIN 32676 series A (DN 15, similar to DIN 32676 series B) Pipe: DIN 11850 - 2 DIN 11866 series A				
DN	**LC**	**CC**	**Ø D1 C**	**Ø D2 C**	**SC**	**LC**	**CC**	**Ø D1 C**	**Ø D2 C**	**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 (pipe)	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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5. Performance specifications

5.1. Fluidic data

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
- Seat leakage leakage rate A according to DIN EN 12266 - 1
- See "7.2. Bürkert product filter" on page 15
- Select the corresponding table according to the selected or required body.

Pipe threaded connection G, NPT, and RC

Nominal diameter (pipe connection)		Seat size	Handwheel diameter Ø	K_V value wather	Operating pressure max.	
					Valve seat seal	
					PTFE	PEEK
DN	NPS		[mm]	[m^3/h]	[bar(g)]	[bar(g)]
8	¼	15	45 (S)	2.6	25	25
10	⅜			5.4	25	25
15	½			5.4	25	25
20	¾	20		11	25	25
25	1	25		20	25	25
32	1¼	32		30	25	25
40	1½	40		40	16	12.8
			110 (M)	40	25	25
50	2	50		55	25 (20 [1.)])	20
65	2 ½	65	160 (L)	91	24 (15 [1.)])	19 (15 [1.)])
80	3	80		140	16 (12.5 [1.)])	12.8 (12.5 [1.)])

1.) In accordance with Pressure Equipment Directive 2014/68/EU for compressible fluids in Group 1 (dangerous gases and vapors in accordance with Article 4, Paragraph (1), c), i), first indent)

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

Nominal diameter (pipe connection)		Seat size	Handwheel diameter Ø	K_V value wather	Operating pressure max.	
					Valve seat seal	
					PTFE	PEEK
DN	NPS		[mm]	[m^3/h]	[bar(g)]	[bar(g)]
10	⅜	15	45 (S)	2.5	25	25
15	½			5.4	25	25
20	¾	20		11	25	25
25	1	25		18	25	25
32	1¼	32		26	25	25
40	1½	40		35	16	12.8
			110 (M)	35	25	25
50	2	50		55	25 (20 [1.)])	20
65	2½	65	160 (L)	91	24 (15 [1.)])	19 (15 [1.)])
80	3	80		140	16 (12.5 [1.)])	12.8 (12.5 [1.)])

1.) In accordance with Pressure Equipment Directive 2014/68/EU for compressible fluids in Group 1 (dangerous gases and vapors in accordance with Article 4, Paragraph (1), c), i), first indent)

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Welded connection ISO 4200, DIN EN ISO 1127, DIN 11866 Series B / Flange DIN EN 1092 - 1 (PN 25)

Nominal diameter (pipe connection)		Seat size	Handwheel diameter Ø	K_V value wather	Operating pressure max.	
					Valve seat seal	
					PTFE	PEEK
OD [mm]	NPS		[mm]	[m³/h]	[bar(g)]	[bar(g)]
13.5	–	15	45 (S)	2.5	25	25
17.2				5.4	25	25
21.3				5.4	25	25
26.9		20		11	25	25
33.7		25		20	25	25
42.4		32		30	25	25
48.3		40		40	16	12.8
			110 (M)	40	25	25
60.3		50		55	25 (20 [1.])	20
76.1		65	160 (L)	91	24 (15 [1.])	19 (15 [1.])
88.9		80		140	16 (12.5 [1.])	12.8 (12.5 [1.])

1.) In accordance with Pressure Equipment Directive 2014/68/EU for compressible fluids in Group 1 (dangerous gases and vapors in accordance with Article 4, Paragraph (1), c), i), first indent)

Welded connection ASME BPE, DIN 11866 Series C / Clamp connection according to ASME BPE

Nominal diameter (pipe connection)		Seat size	Handwheel diameter Ø	K_V value wather	Operating pressure max.	
					Valve seat seal	
					PTFE	PEEK
DN	NPS		[mm]	[m³/h]	[bar(g)]	[bar(g)]
15	½	15	45 (S)	1.6	25	25
20	¾	20		9.4	25	25
25	1	25		16	25	25
40	1½	40		35	16	12.8
			110 (M)	35	25	25
50	2	50		55	25 (20 [1.])	20
65	2½	65	160 (L)	85	24 (15 [1.])	19 (15 [1.])
80	3			91	24 (15 [1.])	19 (15 [1.])
80	3	80		140	16 (12.5 [1.])	12.8 (12.5 [1.])

1.) In accordance with Pressure Equipment Directive 2014/68/EU for compressible fluids in Group 1 (dangerous gases and vapors in accordance with Article 4, Paragraph (1), c), i), first indent)

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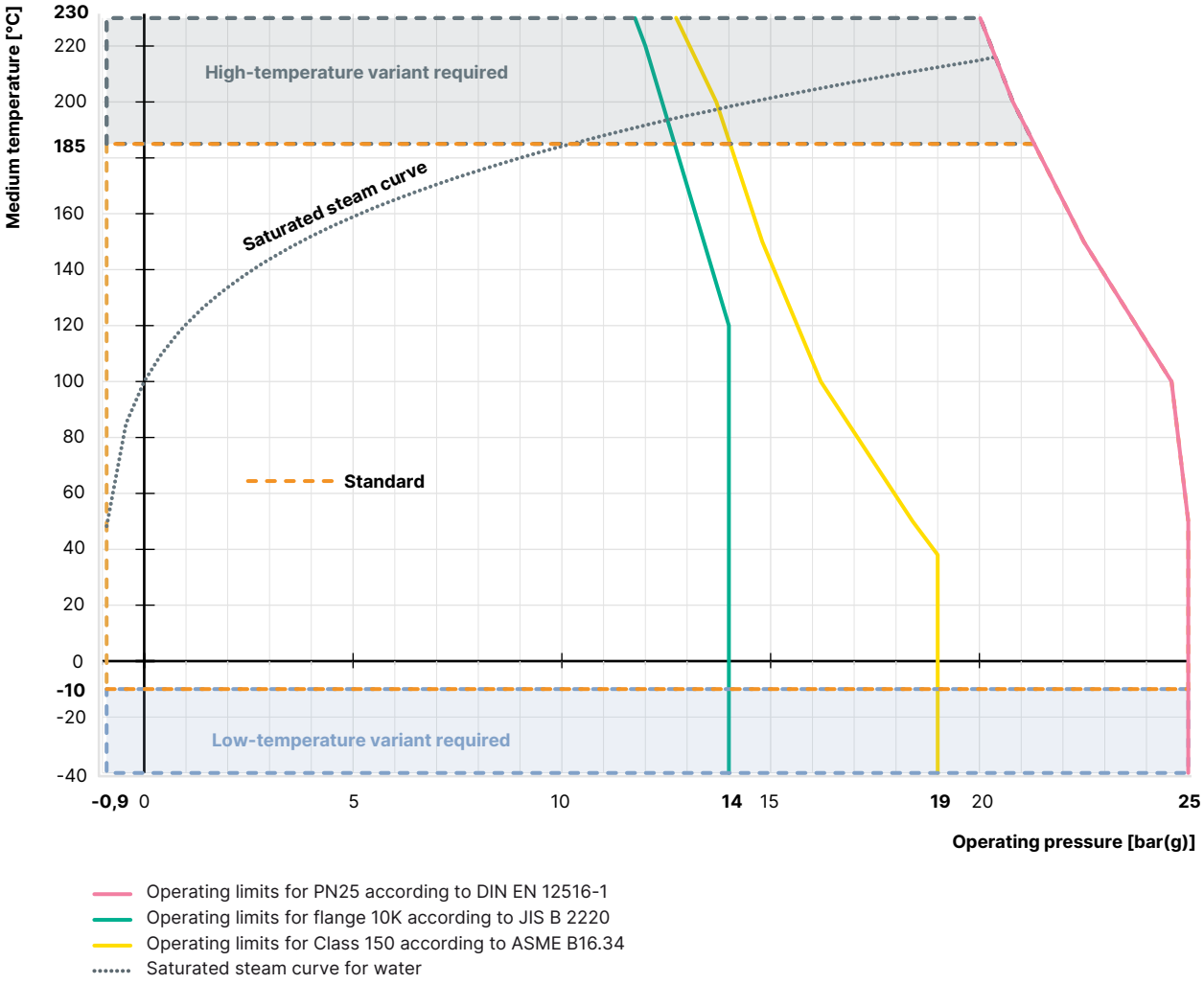
5.2. Operating limits

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.



Operating limits for optional variants

High-temperature variant
Thanks to an adaption of the spindle sea, this variant is suitable for applications with steam, neutral gases and other heat transfer mediums 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 all water applications.

Drinking water variant
The materials comply with the assessment principles (UBA) for materials in contact with drinking water up to + 85 °C.

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

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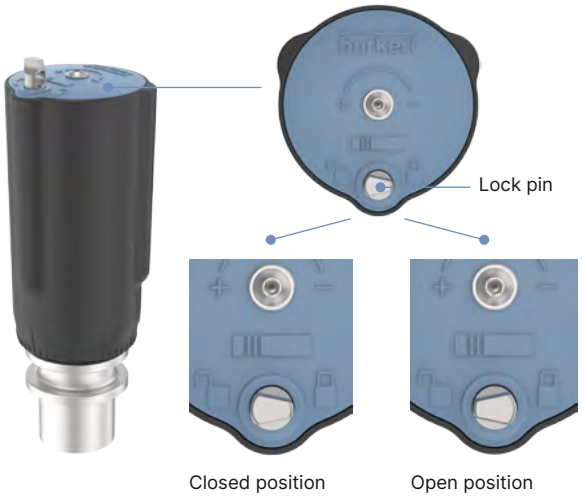
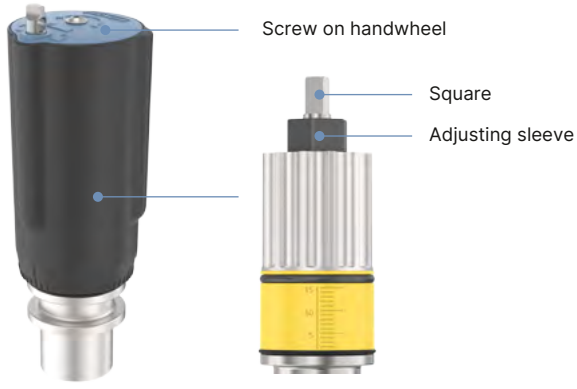
6. Product design and assembly

6.1. Product features

Note
Further information can be found in the **operating instructions Type 2920** ▶.

Position indicator	
When the valve is opened (turn the handwheel anti-clockwise), the yellow position indicator becomes visible.	
Interlock (optional)	
The valve can be secured against unintentional or unauthorized operation. For this purpose, a securing pin can be pressed down and turned. The locking pin has a hole (Ø 3.8) and can be secured with a padlock.	
Stroke limitation (optional)	
Both the minimum and the maximum position of the valve can be adjusted via an adjustment sleeve. The handwheel can be removed for this purpose.	

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7. Ordering information

7.1. 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

7.2. Bürkert product filter

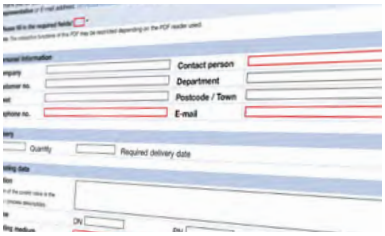
Bürkert product filter – Get quickly to the right product

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

7.3. Bürkert Product Enquiry Form

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



Bürkert Product Enquiry Form – Your enquiry quickly and compactly

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

Fill out the form now

7.4. Ordering chart accessories

Standard accessories

Description	Article no.
4-fold nylon lock with 3 mm shackle	93719475

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