DATA SHEET

Type 2060

bürkert
FLUID CONTROL SYSTEMS

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 ▸
Customized Pneumatic Systems Solutions for the Processing Industries

Type 8644 ▸
Remote Process Actuation Control System AirLINE

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

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 spindle sealing. 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.

DTS 1000290884 EN Version: F Status: RL (released | freigegeben | validé) printed: 28.01.2021

Visit product website ▸

Table of contents

DTS 1000290884 EN Version: F Status: RL (released | freigegeben | validé) printed: 28.01.2021

1. General technical data

Product properties	
Dimensions	More detailed information can be found in the chapter "5. Dimensions" on page 7.
Material	More detailed information can be found in the chapter "4. Materials" on page 5.
Design	Angle seat valve
Port connection size	DN10…80; NPS ⅜…NPS 3
Safety setting in case of power failure	Normally closed (control function A), normally open (control function B)
Flow direction	Flow to open (below seat), Flow to close (above seat)
Performance data	
Operating pressure	0…25 bar(g), Vacuum up to -0.9 bar (g) (option), see
Nominal pressure	PN25 (DIN EN 1333), Class 150 (DIN EN 1759)
Pilot pressure	2…10.5 bar(g), see "6.1. Fluidic data" on page 12
K_V value	3.8…140 m^3/h
Media data	
Medium	Steam, water, neutral gases, alcohol, oils, fuels, hydraulic fluids, salt solution, alkali solutions, organic solvents
Medium temperature	-40…230 °C, see "6.2. Operating limits" on page 15
Viscosity	Max. 600 mm^2/s
Control medium	Air, neutral gases
Process/Port connection & communication	
Port Connections[1.]	
Threaded connection	G (DIN ISO 228-1) NPT (ASME B 1.20.1) Rc (ISO 7-1)
Welded connection	DIN EN ISO 1127/ISO 4200/DIN 11866 B DIN 11850 2/DIN 11866 A ASME BPE/DIN 11866 C SMS 3008
Clamp connection	DIN 32676 B (pipe ISO 4200) DIN 32676 A (pipe DIN 11850 2) ASME BPE
Pilot air port	
Actuator size Ø 50(D)...130(P)	Thread G ⅛
Actuator size Ø 32 (B)	Thread M5
Approvals and certificates	
Conformity	Food contact 1935/2004(EG), FDA Drinking water Pressure Equipment Directive Machinery Directive
Approvals	Explosion proof ATEX / IECex
Material certificate	2.2, 3.1
Environment and installation	
Ambient temperature	-10…130 °C, see "Operating limits for ambient and medium temperature" on page 16
Degree of protection	IP65/67
Installation position	As required, preferably with actuator upright

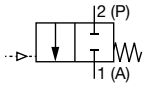
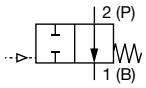
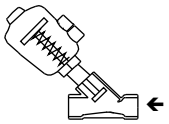
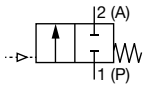
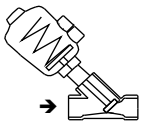
DTS 1000290884 EN Version: F Status: RL (released | freigegeben | validé) printed: 28.01.2021

2. Circuit functions

⚠ CAUTION

Risk of damage due to bursting pipes and bursting equipment when the flow is above the seat.
In the case of liquid mediums, water hammer can occur causing pipes and the device to burst.

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

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

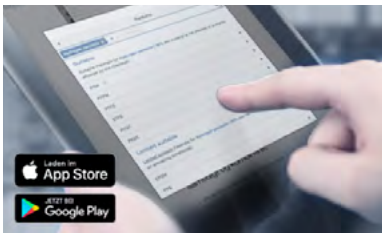
3. Approvals

Approvals	Description
	Food contact Materials in contact with the medium conform to EC Regulation 1935/2004 (option) Materials in contact with the medium conform to FDA (option)
H_2O	**Drinking water** Suitable for use with drinking water with medium temperature up to 85 °C according to KTW, W270 (option)
	Explosion proof As category 2 device suitable for zone 1/21 and zone 2/22 (option) **ATEX** II 2G Ex h IIC T4 Gb II 2D Ex h IIIC T135 °C Db **IECEx** Ex h IIC T4 Gb Ex h IIIC T135 °C Db

DTS 1000290884 EN Version: F Status: RL (released | freigegeben | validé) printed: 28.01.2021

4. Materials

4.1. Chemical Resistance Chart – Bürkert resistApp



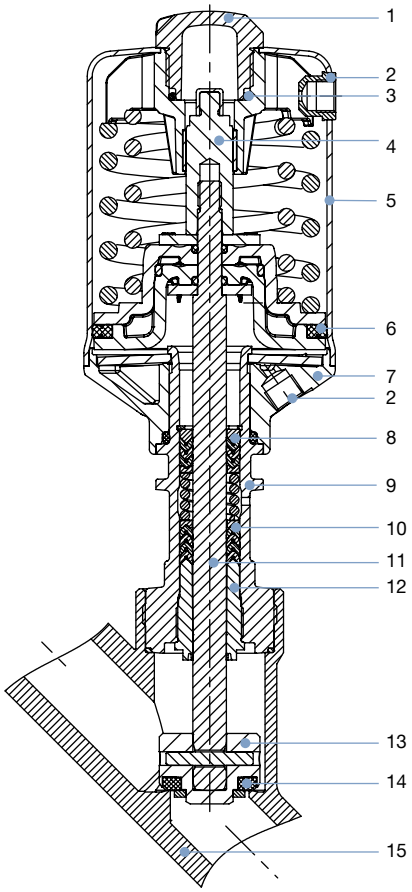
Bürkert resistApp – Chemical Resistance Chart

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

Start Chemical Resistance Check

4.2. Material specifications

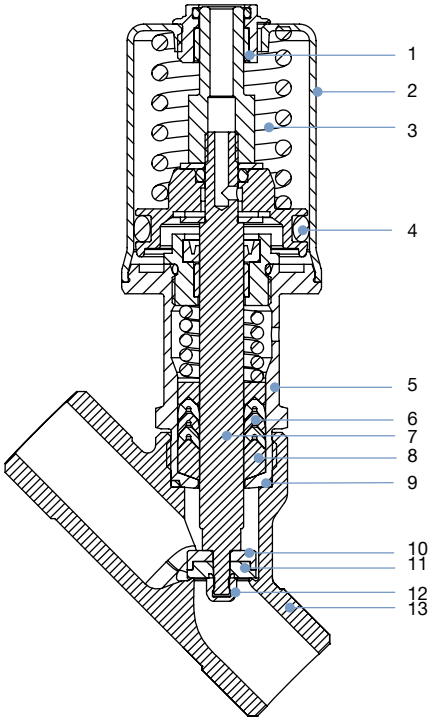
Actuator size 50(D), 70(M), 90(N), 130(P)



No.	Element	Material
1	Transparent cover	Optical position indicator Polysulfone PSU
2	Pilot air ports	Threaded bushing G ⅛" Stainless steel 1.4404 (316L)
3	Spring support	Stainless steel 1.4308
4	Spindle extension	Stainless steel 1.4104
5	Actuator cover	Stainless steel 1.4404 (316L)
6	Piston seal	FKM
7	Actuator base (interface)	Stainless steel 1.4308
8	Spring	Stainless steel 1.4310
9	Pipe	Stainless steel 1.4401 (316)/1.4404 (316L)
10	Spindle sealing	PTFE V-Rings (filled), with spring compensation
11	Spindle	Stainless steel 1.4401 (316)/1.4404 (316L)
12	Spindle guide	PTFE (filled) for actuator size 50(D)/PEEK for actuator size 70(M), 90(N), 130(P)
13	Swivel plate	Stainless steel 1.4401 (316)/1.4404 (316L)
14	Seat seal	PTFE, PEEK (optional), NBR (optional), FKM (optional)
15	Valve body	Stainless steel CF3M

DTS 1000290884 EN Version: F Status: RL (released | freigegeben | validé) printed: 28.01.2021

Actuator size 32(B)



No.	Element	Material
1	Optical position indicator/ Pilot air ports	Stainless steel 1.4104/ Thread M5
2	Actuator cover	Stainless steel 1.4404
3	Spring	1.4310
4	Piston seal	FPM
5	Pipe	Stainless steel 1.4404
6	Spindle seal	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

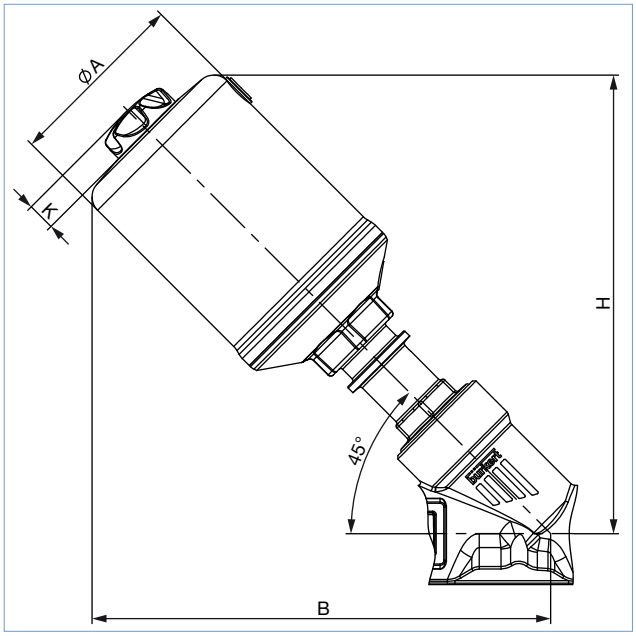
DTS 1000290884 EN Version: F Status: RL (released | freigegeben | validé) printed: 28.01.2021

5. Dimensions

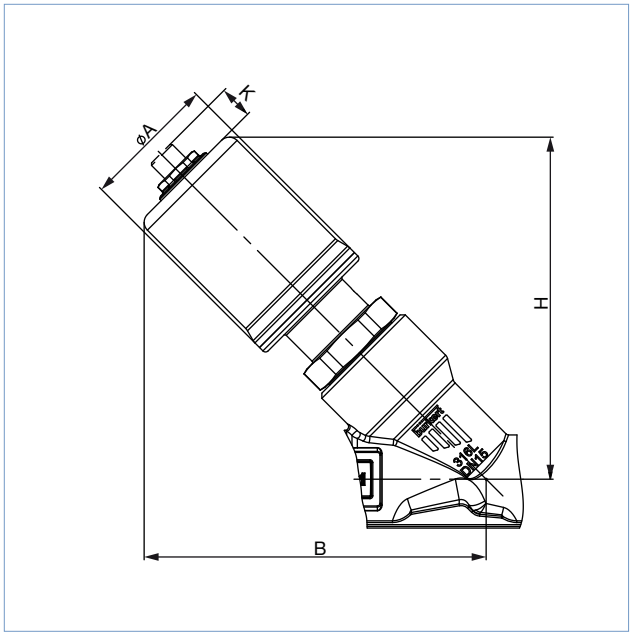
5.1. Angle seat valve Type 2060

Note:
Dimensions in mm

Actuator size 50(D)…130(P)



Actuator size 32(B)

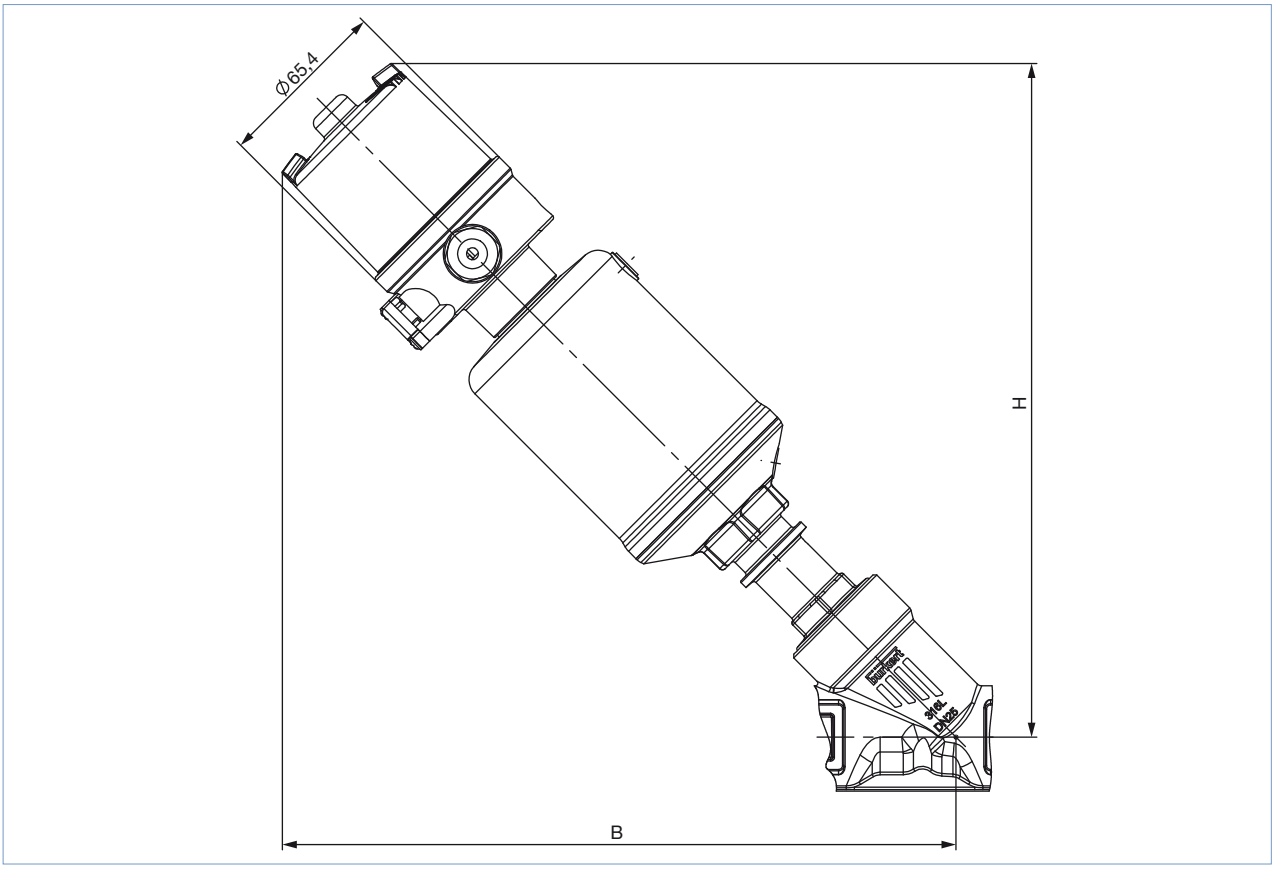


Nominal diameter (pipe)		Actuator size Ø	Ø A	B/H[1.]	K[1.]	P
DN	NPS					
10	⅜	32 (B)	36.4	87	9.1	M5
		50 (D)	55	154	11	G ⅛
		70 (M)	75	174	11	G ⅛
15	½	32 (B)	36.4	98	9.1	M5
		50 (D)	55	154	11	G ⅛
		70 (M)	75	174	11	G ⅛
20	¾	50 (D)	55	157	11	G ⅛
		70 (M)	75	180	11	G ⅛
25	1	50 (D)	55	169	11	G ⅛
		70 (M)	75	184	11	G ⅛
		90 (N)	96	233	14	G ⅛
32	1¼	70 (M)	75	193	11	G ⅛
		90 (N)	96	238	14	G ⅛
		130 (P)	137	283	14	G ⅛
40	1½	70 (M)	75	196	11	G ⅛
		90 (N)	96	242	14	G ⅛
		130 (P)	137	286	14	G ⅛
50	2	70 (M)	75	214	11	G ⅛
		90 (N)	96	257	14	G ⅛
		130 (P)	137	301	14	G ⅛
65	2½	90 (N)	96	269	11	G ⅛
		130 (P)	137	314	14	G ⅛
80	3	130 (P)	137	334	14	G ⅛

1.) Dimensions for B, H and K are maximum dimensions and can be up to 6 mm smaller depending on the nominal diameter and port connection.

5.2. Valve system On/Off ELEMENT Type 8801-YV

Note:
Dimensions in mm



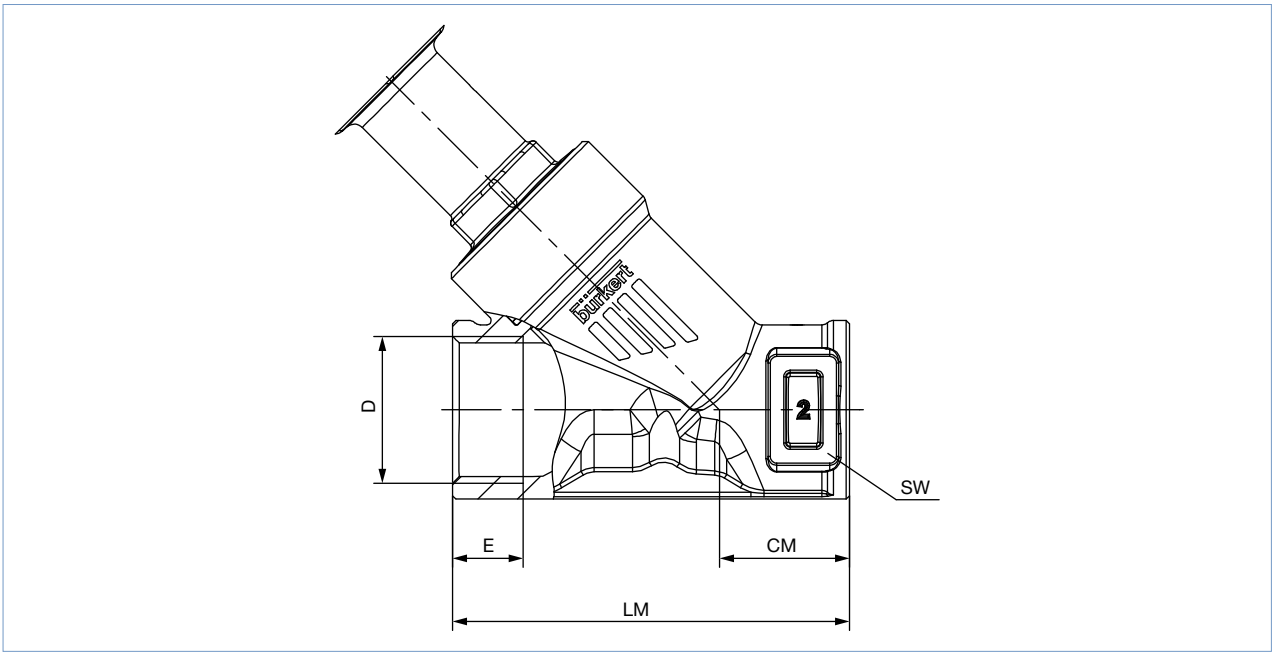
Nominal diameter		Actuator size Ø	B/H[1.]
DN	NPS		
10	⅜	50 (D)	230
		70 (M)	244
15	½	50 (D)	230
		70 (M)	244
20	¾	50 (D)	233
		70 (M)	250
25	1	50 (D)	245
		70 (M)	254
		90 (N)	287
32	1¼	70 (M)	263
		90 (N)	301
		130 (P)	332
40	1½	70 (M)	266
		90 (N)	305
		130 (P)	335
50	2	70 (M)	284
		90 (N)	320
		130 (P)	350
65	2½	90 (N)	332
		130 (P)	363
80	3	130 (P)	383

1.) Dimensions for B and H are maximum dimensions and can be up to 6 mm smaller depending on the nominal diameter and port connection.

DTS 1000290884 EN Version: F Status: RL (released | freigegeben | validé) printed: 28.01.2021

5.3. Body with threaded connection

Note:
Dimensions in mm

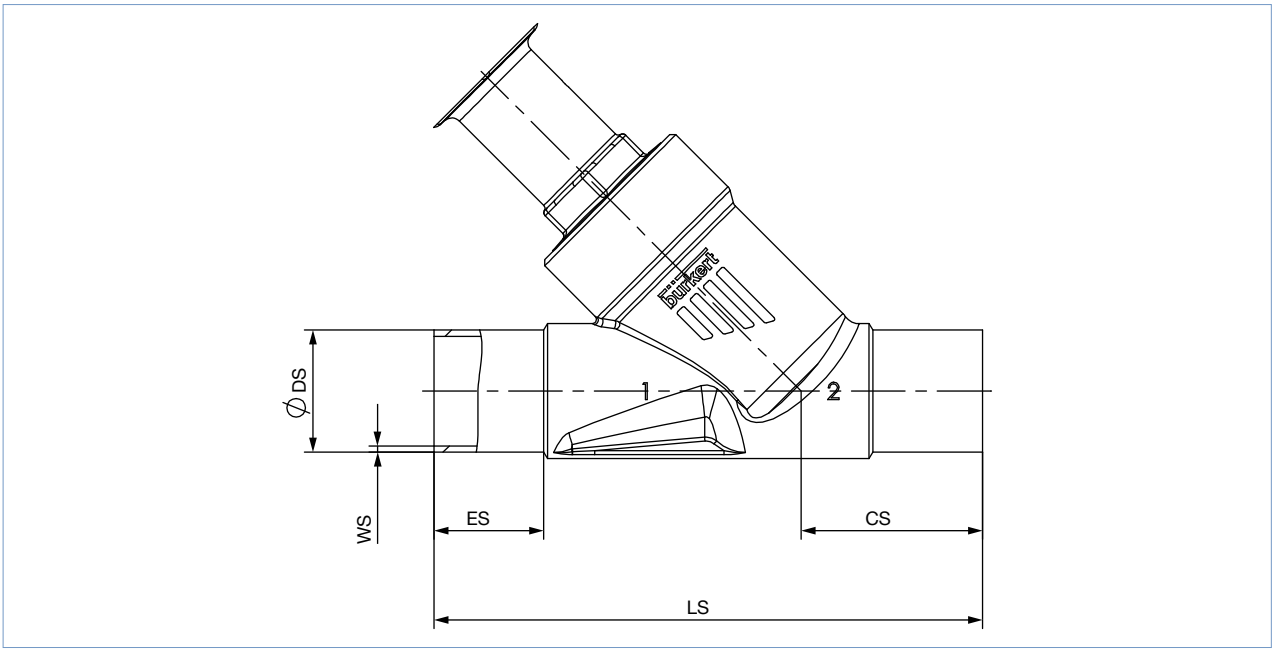


Nominal diameter (pipe)	G, Rc, NPT (EN ISO 228-1, ISO 7/1/DIN EN 10226-2, ASME B 1.20.1)						
	D	E			CM	LM	SW
[DN]	[NPS]	[G]	[NPT]	[Rc]			
15	½	14	13.7	13.2	24	65	27
20	¾	16	14.0	14.5	27	75	34
25	1	18	16.8	16.8	29.5	90	41
32	1¼	16	17.3	19.1	36	110	50
40	1½	18	17.3	19.1	35	120	55
50	2	24	17.6	23.4	45	150	70
65	2½	26	23.7	26.7	57	185	85
80	3	28	–	–	71	220	100

DTS 1000290884 EN Version: F Status: RL (released | freigegeben | validé) printed: 28.01.2021

5.4. Body with welded connection

Note:
Dimensions in mm



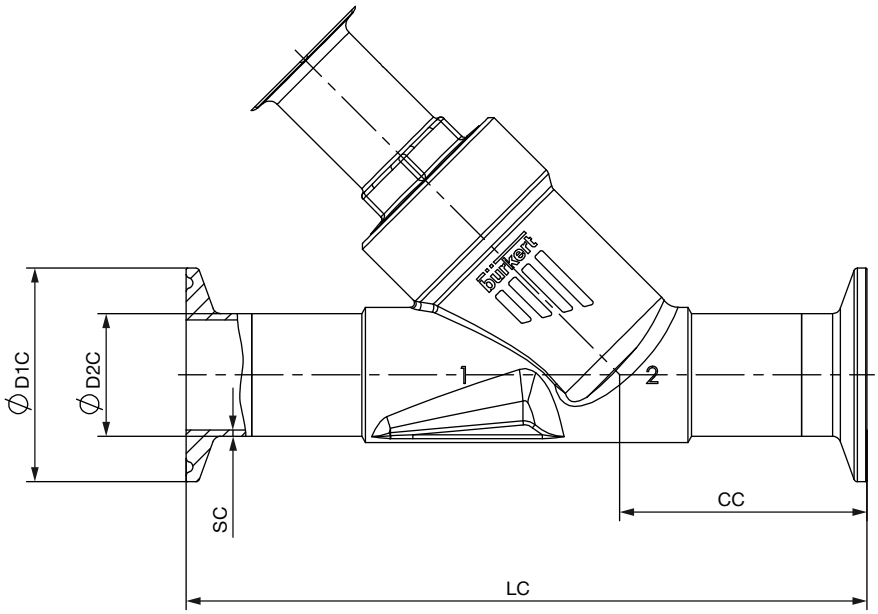
Nominal diameter (pipe)	DIN EN ISO 1127 ISO 4200 DIN 11866 B					DIN 11850 2 DIN 11866 A				
[DN]	ES	CS	LS	ØDS	WS	ES	CS	LS	ØDS	WS
15	19	34	100	21.3	1.6	19	34	100	19	1.5
20	20	39	115	26.9	1.6	20	39	115	23	1.5
25	26	43	130	33.7	2.0	26	43	130	29	1.5
32	26	45	145	42.4	2.0	26	45	145	35	1.5
40	26	49	160	48.3	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

Nominal diameter (pipe)	ASME BPE DIN 11866 C				
[NPS]	ES	CS	LS	ØDS	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

DTS 1000290884 EN Version: F Status: RL (released | freigegeben | validé) printed: 28.01.2021

5.5. Body with clamp connection

Note:
Dimensions in mm



Nominal diameter (pipe)	Clamp: DIN 32676 B Pipe: EN ISO 1127 1 ISO 4200 DIN 11866 B					Clamp: DIN 32676 A Pipe: DIN 11850 2 DIN 11866 A				
[DN]	LC	CC	ØDC1	ØDC2	SC	LC	CC	ØDC1	ØDC2	SC
15	156	49.0	50.5	21.3	1.6	130	49.5	19	34.0	1.5
20	150	56.5	50.5	26.9	1.6	150	57.0	23	34.0	1.5
25	160	58.0	50.5	33.7	2.0	160	58.5	29	50.5	1.5
32	200	57.5	50.5	42.4	2.0	180	58.0	35	50.5	1.5
40	200	69.0	64.0	48.3	2.0	200	69.5	41	50.5	1.5
50	230	77.5	77.5	60.3	2.6	230	78.0	53	64.0	1.5

Nominal diameter (pipe)	Clamp: ASME BPE Pipe: ASME BPE DIN 11866 C				
[NPS]	LC	CC	ØDC1	ØDC2	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

DTS 1000290884 EN Version: F Status: RL (released | freigegeben | validé) printed: 28.01.2021

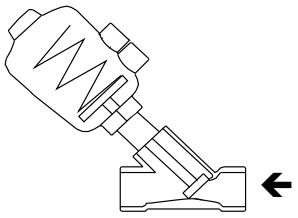
6. Performance specifications

6.1. Fluidic data

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

Note:

- K_V value [m³/h]: Measured with water at +20 °C, 1 bar pressure at valve inlet and free outlet
- Pressure data [bar]: Overpressure to atmospheric pressure



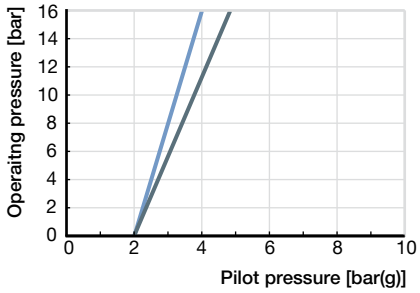
Nominal diameter		Actuator size Ø	K_V value	Pilot pressure min.	Max. operating pressure		
				CF: A	CF: A	CF: A	CF: B
					Seat seal		
					PTFE	PEEK	PTFE
DN	NPS	[mm]	[m³/h]	[bar(g)]	[bar(g)]	[bar(g)]	[bar(g)]
10	⅜	32 (B)	2.4	5.5	16	–	16
		50(D)	4.2	4.1	16	–	16
		70(M)	4.8	4.8	25	25	25
15	½	32 (B)	4	5.5	11	–	–
		50(D)	4.2	4.1	16	–	16
		70(M)	5	4.8	25	25	25
20	¾	50(D)	8	4.1	11	8.5	16
		70(M)	11	4.8	25	25	25
25	1	50(D)	14	4.1	5.2	–	16
		70(M)	18	4.8	16	13.5	25
		90 (N)	18	5	25	25	25
32	1¼	70(M)	27	4.8	8.5	–	25
		90 (N)	28	5	25	19.5	25
		130(P)	28	5	–	25	–
40	1½	70(M)	38	4.8	6	–	25
		90 (N)	40	5	16	13.5	25
		130(P)	42	5	25	25	25
50	2	90 (N)	55	5	10	–	25
		130(P)	62	5	25 (20[1.)])	23 (20[1.)])	25 (20[1.)])
65	2½	90 (N)	85	5	5		11
		130(P)	95	5.6	16	12.5	17 (15[1.)])
80	3	130(P)	140	5.6	10	8	11

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

DTS 1000290884 EN Version: F Status: RL (released | freigegeben | validé) printed: 28.01.2021

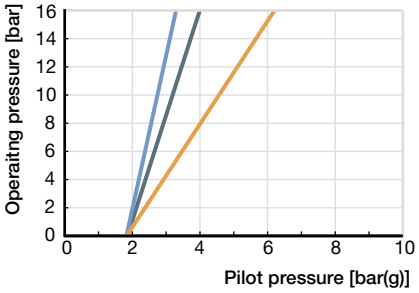
Pilot pressure diagram with flow direction below seat (control function B, seat seal PTFE)

Actuator size: Ø32(B)



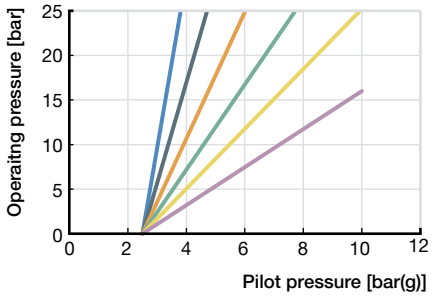
Orifice:
DN10
DN15

Actuator size: Ø50(D)



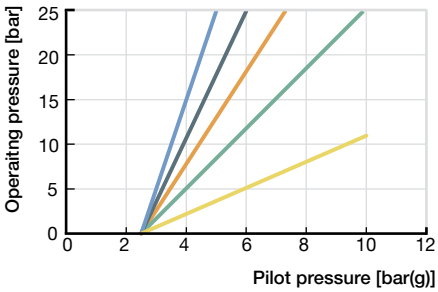
Orifice:
DN15
DN20
DN25

Actuator size: Ø70(M)



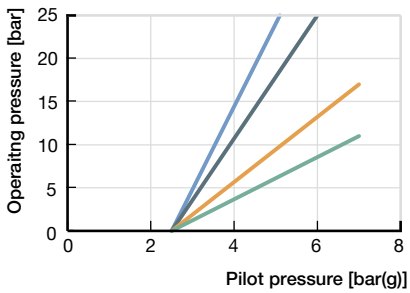
Orifice:
DN15
DN20
DN25
DN32
DN40
DN50

Actuator size: Ø90(N)



Orifice:
DN25
DN32
DN40
DN50
DN65

Actuator size: Ø130(P)



Orifice:
DN40
DN50
DN65
DN80

DTS 1000290884 EN Version: F Status: RL (released | freigegeben | validé) printed: 28.01.2021

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

Note:

- K_v value [m³/h]: Measured with water at +20 °C, 1 bar pressure at valve inlet and free outlet
- Pressure data [bar]: Overpressure to atmospheric pressure

⚠ CAUTION

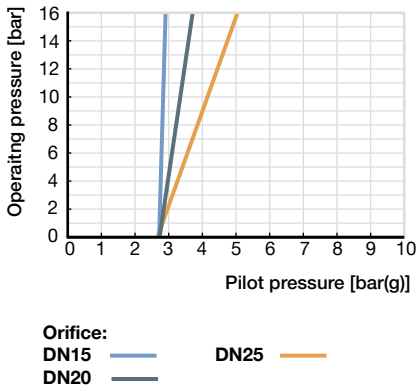
Risk of damage due to bursting pipes and bursting equipment when the flow is above the seat.
In the case of liquid mediums, water hammer can occur causing pipes and the device to burst.

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

Nominal diameter/ Orifice		Actuator size [mm]	K_v value water [m³/h]	Max. operating pressure bis + 185 °C
[mm]	[inch]			CF: A [bar]
15	½”	50(D)	4.2	16
20	¾”	50(D)	8	16
25	1”	50(D)	14	16
32	1¼”	70(M)	28	16
40	1½”	70(M)	38	16
50	2”	70(M)	50	12
		90(N)	55	15

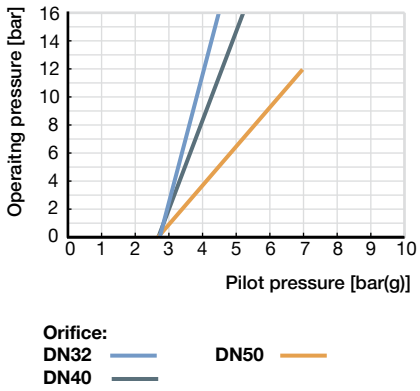
Pilot pressure diagram with flow direction above seat (control function A)

Actuator size: Ø50(D)



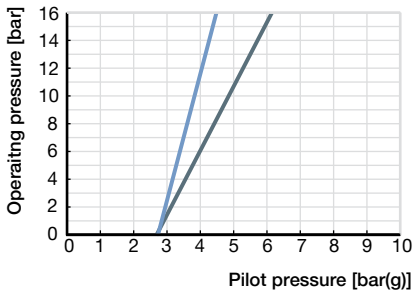
Orifice:
DN15 **DN20** **DN25**

Actuator size: Ø70(M)



Orifice:
DN32 **DN40** **DN50**

Actuator size: Ø90(N)



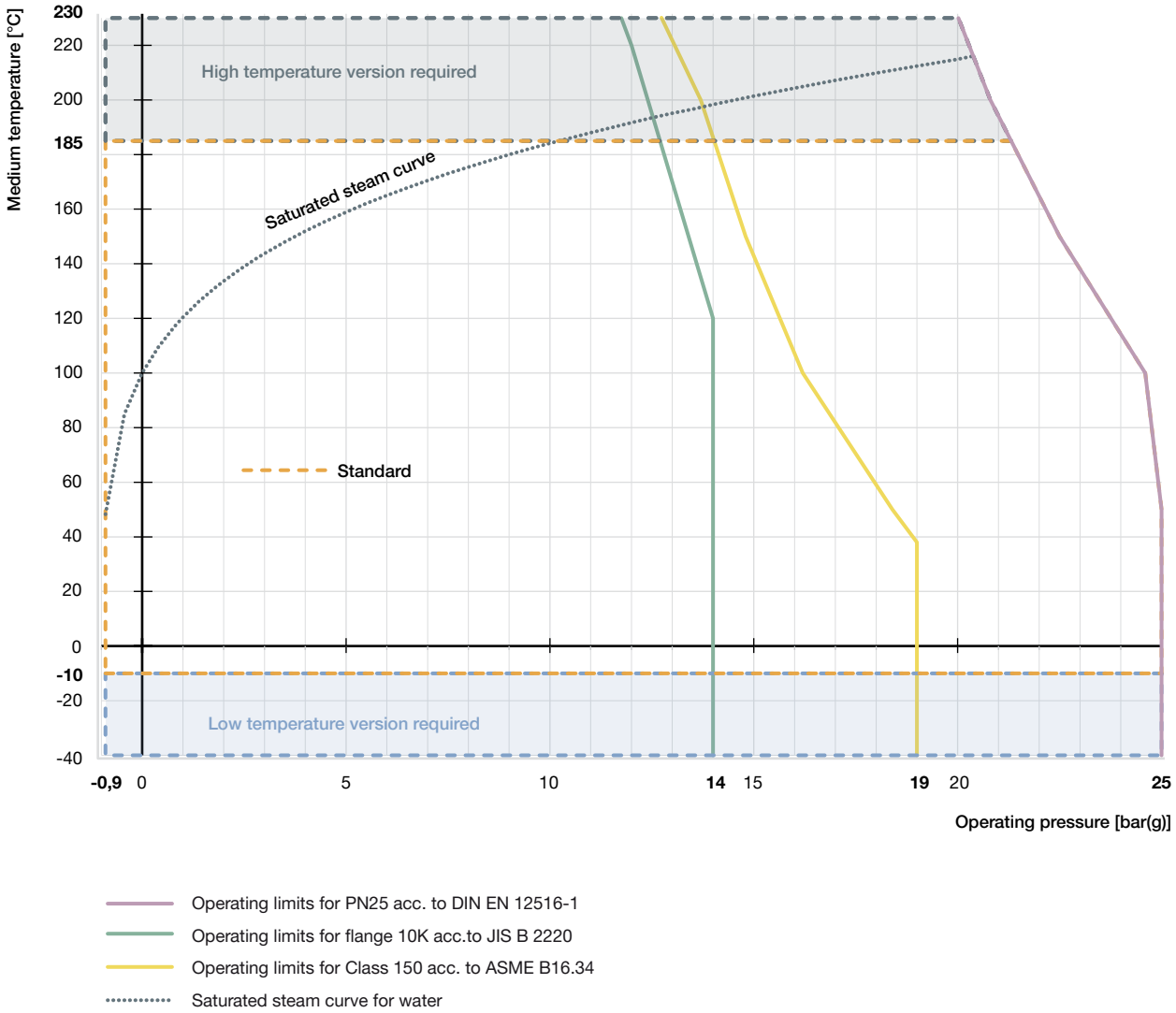
Orifice:
DN40
DN50

DTS 1000290884 EN Version: F Status: RL (released | freigegeben | validé) printed: 28.01.2021

6.2. Operating limits

Operating limits for medium temperature and operating pressure

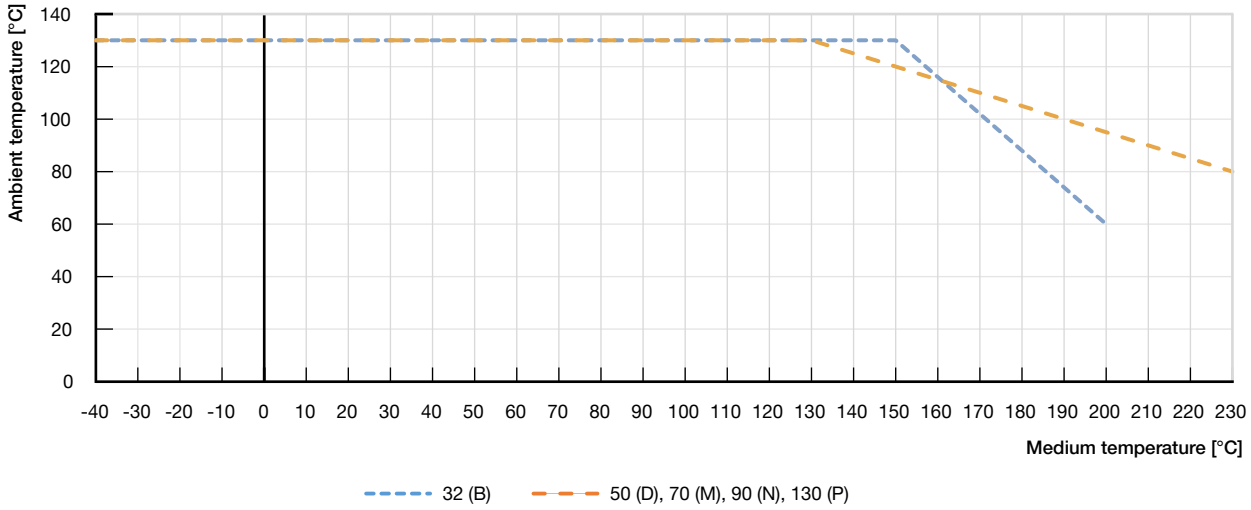
The operating range of Bürkert process valves is in addition to the maximum operating pressures limited by the nominal pressure according to the relevant standard.



DTS 1000290884 EN Version: F Status: RL (released | freigegeben | validé) printed: 28.01.2021

Operating limits for ambient and medium temperature

Stainless steel actuator



Operating limits for optional versions

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

Hot water version
For applications with hot water up to 200 °C a special configuration of the spindle seal increases the lifetime significantly. It is recommended for water temperatures starting at 85 °C.

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

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

DTS 1000290884 EN Version: F Status: RL (released | freigegeben | validé) printed: 28.01.2021

7. Product accessories

Electric position feedback sensor	
Type 8697 ▸ Actuator size 50(D) ... 130(P)	**Description**
	The position feedback Type 8697 is designed for integrated mounting on CLASSIC series 20XX process valves suiting the requirements of hygienic process environment Mechanical or inductive limit switches register the position of the valve **Features** • Compact design • LED position indicator • Mechanical or inductive limit switches for end position registering • Easy to clean chemically resistant housing featuring IP65/IP67, 4X Rating • Optional intrinsically safe version acc. to ATEX **Customer benefits** • Easy and quick installation • High level of signal reliability thanks to self adjusting limit switches • Minimised space requirement in the plant piping for more flexibility in plant design
Adaptation for proximity switch	
Type 2xxx ▸	**Description**
	Various options for the use of inductive proximity switches are available for the actuators of the CLASSIC series: • Nipple • Support bracket, 1-fold • Support bracket, 2-fold
Stroke limiter	
Type 2xxx ▸	**Description**
	Stroke limitations can be used to limit the minimum (min.) and maximum (max.) flow rate of the valves. Different versions are available: • Max. Stroke Limitation • Max. and min. stroke limitation with optical position indicator

DTS 1000290884 EN Version: F Status: RL (released | freigegeben | validé) printed: 28.01.2021

8. Networking and combination with other Bürkert products

The **angled seat valve Type 2060** can be combined with the **feedback positioner Type 8697** to form the **valve system On/Off Type 8801-YV**.

Note:

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

Angle seat valve

Type 2060 welded connection

Position feedback

Type 8697 ▸
Electric feedback positioner for process valves

Valve system
On/Off CLASSIC

Type 8801-YV ▸
On/Off valve system with decentralised automation

DTS 1000290884 EN Version: F Status: RL (released | freigegeben | validé) printed: 28.01.2021

9. Ordering information

9.1. Bürkert eShop – Easy ordering and quick delivery

Bürkert eShop – Easy ordering and fast 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. Ordering chart welded connection

Valve with flow direction below seat

Control function	Nominal diameter/ Orifice		Port connection pipe-Ø x wall thickness	Actuator size	Pilot pressure	Operating pressure bis + 185 °C	Article no.
	[mm]	[inch]	[mm]	[mm]	[bar]	[bar]	
EN ISO 1127/ISO 4200/DIN 11866 series B							
CF: A, pneumatically operated on/off valve[1.)]	10	⅜	17.2 x 1.6	32(B)	5.5…10	16	387585
	15	½	21.3 x 1.6	32(B)	5.5…10	11	387629
				50(D)	4.1…10.5	16	285215
	20	¾	26.9 × 1.6	50(D)	4.1…10.5	11	285217
				70(M)	4.8…10.5	25	285218
	25	1	33.7 × 2.0	50(D)	4.1…10.5	5.2	285219
				70(M)	4.8…10.5	16	285220
	32	1¼	42.4 × 2.0	70(M)	4.8…10.5	8.5	285221
				90(N)	5.0…10.5	25	285222
	40	1½	48.3 × 2.0	70(M)	4.8…10.5	6	285223
				90(N)	5.0…10.5	16	285224
	50	2	60.3 × 2.0	90(N)	5.0…10.5	10	285515
				130(P)	5.0…7.5	25	285705
	65	2½	76.1 × 2.3	90(N)	5.0…10.5	5	285227
				130(P)	5.6…7.5	12	285228

DTS 1000290884 EN Version: F Status: RL (released | freigegeben | validé) printed: 28.01.2021

Control function	Nominal diameter/ Orifice		Port connection pipe-Ø x wall thickness	Actuator size	Pilot pressure	Operating pressure bis + 185 °C	Article no.
	[mm]	[inch]	[mm]	[mm]	[bar]	[bar]	
CF: B, pneumatically operated on/off valve[1.)]	10	⅜	17.2 x 1.6	32 (B)	5.5…10	16	387647
	15	½	21.3×1.6	32 (B)	5.5…10	16	387651
				50(D)	See diagram for valves with Flow direction below seat[2.)]	16	285500
				70(M)		25	287565
	20	¾	26.9×1.6	50(D)		16	285501
				70(M)		25	287566
	25	1	33.7×2.0	70(M)		25	285503
	32	1¼	42.4×2.0	70(M)		25	285504
	40	1½	48.3×2.0	70(M)		25	285505
	50	2	60.3×2.0	70(M)		16	287567
	65	2½	76.1×2.3	90(N)		11	285511
DIN 11850 series 2/DIN 11866 series A/DIN EN 10357 series A							
CF: A, pneumatically operated on/off valve[1.)]	10	⅜	13.0 x 1.5	32 (B)	5.5…10	16	387605
	15	½	19.0×1.5	32 (B)	5.5…10	11	387596
				50(D)	4.1…10.5	16	285201
	20	¾	23.0×1.5	50(D)	4.1…10.5	11	285203
				70(M)	4.8…10.5	25	285204
	25	1	29.0×1.5	50(D)	4.1…10.5	5.2	285205
				70(M)	4.8…10.5	16	285206
	32	1¼	35.0×1.5	70(M)	4.8…10.5	8.5	285207
				90(N)	5.0…10.5	25	285208
	40	1½	41.0×1.5	70(M)	4.8…10.5	6	285209
				90(N)	5.0…10.5	16	285210
	50	2	53.0×1.5	90(N)	5.0…10.5	10	285211
				130(P)	5.0…7.5	25	285212
	65	2½	70.0×2.0	90(N)	5.0…10.5	5	285213
				130(P)	5.6…7.5	12	285214
CF: B, pneumatically operated on/off valve[1.)]	10	⅜	13.0 x 1.5	32 (B)	5.5…10	16	387633
	15	½	19.0×1.5	32 (B)	5.5…10	16	387623
				50(D)	See diagram for valves with Flow direction below seat[2.)]	16	287555
				70(M)		25	287556
	20	¾	23.0×1.5	50(D)		16	287557
				70(M)		25	287558
	25	1	29.0×1.5	70(M)		25	287559
	32	1¼	35.0×1.5	70(M)		25	287560
	40	1½	41.0×1.5	70(M)		25	287561
	50	2	53.0×1.5	90(N)		16	287562
	65	2½	70.0×2.0	90(N)		11	287563

DTS 1000290884 EN Version: F Status: RL (released | freigegeben | validé) printed: 28.01.2021

Control function	Nominal diameter/ Orifice		Port connection pipe-Ø x wall thickness	Actuator size	Pilot pressure	Operating pressure bis + 185 °C	Article no.
	[mm]	[inch]	[mm]	[mm]	[bar]	[bar]	
ASME BPE/DIN 11866 series C							
CF: A, pneumatically operated on/off valve[1.)]	10	⅜	12.7 × 1.65	32 (B)	5.5…10	16	387603
	15	½	12.7 x 1.65	32 (B)	5.5…10	11	387637
				50(D)	4.1…10.5	16	285189
	20	¾	19.05 × 1.65	50(D)	4.1…10.5	11	285191
				70(M)	4.8…10.5	25	285192
	25	1	25.4 × 1.65	50(D)	4.1…10.5	5.2	285193
				70(M)	4.8…10.5	16	285194
	40	1½	38.1 × 1.65	70(M)	4.8…10.5	6	285195
				90(N)	5.0…10.5	25	285196
	50	2	50.8 × 1.65	90(N)	5.0…10.5	10	285197
				130(P)	5.0…7.5	25	285198
	65	2½	63.5 × 1.65	90(N)	5.0…10.5	5	285199
				130(P)	5.6…7.5	12	285200
CF: B, pneumatically operated on/off valve[1.)]	10	⅜	12.7 × 1.65	32 (B)	5.5…10	16	387650
	15	½	12.7 × 1.65	32 (B)	5.5…10	16	On request
				50(D)	See diagram for valves with Flow direction below seat[2.)]	16	285499
				70(M)		25	287548
	20	¾	19.05 × 1.65	50(D)		16	287549
				70(M)		25	287550
	25	1	25.4 × 1.65	70(M)		25	287551
	40	1½	38.1 × 1.65	70(M)		25	287552
	50	2	50.8 × 1.65	70(M)		16	285509
	65	2½	63.5 × 1.65	90(N)		11	287553

1.) Further information in chapter "2. Circuit functions" on page 4

2.) See diagram in chapter "Pilot pressure diagram with flow direction below seat (control function B, seat seal PTFE)" on page 13

Further versions on request

Approval
Drinking water, explosion protection

Pressure
Other versions for operating pressures up to 25 bar(g)
Vacuum version down to -0.9 bar(g)

Temperature
High temperature version up to 230 °C
Hot water version up to 200 °C
Low temperature version down to -40 °C

Process connection
Threaded/Clamp

DTS 1000290884 EN Version: F Status: RL (released | freigegeben | validé) printed: 28.01.2021

Valves with flow direction above seat

Control function	Nominal diameter/ Orifice		Port connection pipe-Ø x wall thickness	Actuator size	Pilot pressure	Operating pressure bis + 185 °C	Article no.
	[mm]	[inch]	[mm]	[mm]	[bar]	[bar]	
EN ISO 1127/ISO 4200/DIN 11866 series B							
CF: A, pneumatically operated on/off valve[1.)]	15	½	21.3 × 1.6	50(D)	See diagram for valves with Flow direction above seat[2.)]	16	287541
	20	¾	26.9 × 1.6	50(D)		16	287542
	25	1	33.7 × 2.0	50(D)		16	287543
	32	1¼	42.4 × 2.0	70(M)		16	287544
	40	1½	48.3 × 2.0	70(M)		16	287545
	50	2	60.3 × 2.0	70(M)		16	287546
				90(N)		16	287547
DIN 11850 series 2/DIN 11866 series A/DIN EN 10357 series A							
CF: A, pneumatically operated on/off valve[1.)]	15	½	19.0 × 1.5	50(D)	See diagram for valves with Flow direction above seat[2.)]	16	287534
	20	¾	23.0 × 1.5	50(D)		16	287535
	25	1	29.0 × 1.5	50(D)		16	287536
	32	1¼	35.0 × 1.5	70(M)		16	287537
	40	1½	41.0 × 1.5	70(M)		16	287538
	50	2	53.0 × 1.5	70(M)		12	287539
				90(N)		16	287540
ASME BPE/DIN 11866 series C							
CF: A, pneumatically operated on/off valve[1.)]	15	½	12.7 × 1.65	50(D)	See diagram for valves with Flow direction above seat[2.)]	16	287528
	20	¾	19.05 × 1.65	50(D)		16	287529
	25	1	25.4 × 1.65	50(D)		16	287530
	40	1½	38.1 × 1.65	70(M)		16	287531
	50	2	50.8 × 1.65	70(M)		12	287532
				90(N)		16	287533

1.) Further information in chapter "2. Circuit functions" on page 4

2.) See diagram in chapter "Pilot pressure diagram with flow direction above seat (control function A)" on page 14

9.4. Ordering chart accessories

Note:

- For further accessories see separate data sheet, Accessories **Type 2XXX** ▶, for the complete range of accessories.
- Accessories must be ordered separately

Accessories	For actuator size	Article no.
Stainless steel silencer set (St. st. silencer incl. PTFE sealing ring)	Universal	696931
Max. stroke limitation	Ø50(D), Ø70(M)	699550
	Ø90(N), Ø130(P)	699994
Min.-/Max. stroke limitation	Ø50(D), Ø70(M)	699986
	Ø90(N), Ø130(P)	699998
Proximity switch (single))	Ø50(D), Ø70(M)	699989
	Ø90(N), Ø130(P)	699991
Proximity switch (double))	Ø50(D), Ø70(M)	699990
	Ø90(N), Ø130(P)	699992
Adaption set Type 8697	Ø50(D), Ø70(M)	699551
	Ø90(N), Ø130(P)	580000
Type 8697	Universal	Depending on version
Angled screw-in connector 45° - M5…Ø 4 mm	Ø32(B)	903383
Angled screw-in connector 45° - M5…Ø 6 mm	Ø32(B)	771077

DTS 1000290884 EN Version: F Status: RL (released | freigegeben | validé) printed: 28.01.2021

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DTS 1000290884 EN Version: F Status: RL (released | freigegeben | validé) printed: 28.01.2021

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Product Enquiry Form - Pneumatic Shut-off Valves

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

Please fill in the required fields! *

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

Delivery			
	Quantity		Required delivery date

Operating data				
Function (Function of the control valve in the process / process description)				
Pipeline	DN		PN	
Operating medium				
Type of medium	○ Fluid	○ Steam	○ Gas	
Operating pressure		Unit		
Medium temperature		○ °C /	○ °F	
Ambient temperature		○ °C /	○ °F	

Valve body				
Construction	○ Angle seat valve	○ Globe valve		
Actuator material	○ Stainless steel/PPS	○ Stainless steel	○ PPS	○ PA
Housing material	○ Stainless steel	○ Gunmetal		
Seat seal	○ PTFE ○ EPDM	○ NBR ○ Other	○ PEEK	○ FKM
DN / Nominal pressure	DN		PN	
Flow coefficient	K_V	m^3/h	C_V	GPM(US)
Connection	○ **Flange**	DIN EN 1092-1	ANSI B16.5	JIS 10K
	○ **Thread**	G	NPT	RC
	○ **Weld**	DIN EN ISO 1127 / ISO 4200	DIN 11850 2 / DIN 11866 A	ASME BPE
	○ **Clamp**	ASME BPE	DIN 32676 A (tube ISO 4200)	DIN 32676 B (tube DIN 11850)
	○ **Other**			

Valve data			
Circuit Function	○ A: Normally closed	○ B: Normally open	○ I: Double acting
Control pressure	Min.	Max.	

DTS 1000290884 EN Version: F Status: RL (released | freigegeben | validé) printed: 28.01.2021

Approvals / Conformities
☐ For use with food (conform to EG regulation no. 1935/2004)
☐ For use with food (conform to FDA)
☐ Explosion protection in accordance with ATEX II 2GD mech. / IECex
☐ European Gas Appliances Directive (EU) 2016/426, DVGW DIN EN 161 and DIN EN 16678
☐ For potable water according to KTW/W270
☐ Certificate for the fulfilment of the order EN-ISO 10204 2.1 (Article no. 440788)
☐ Test report EN-ISO 10204 2.2 (Article no. 803722)
☐ Conformity certification for raw material EN-ISO 10204 3.1 (included)

Additional Requirements / Comment

Automation unit features

For actuator size ø40 to 225 mm

☐ **Electrical position feedback Type 8697** ▸

- Optical position indicator
- Mechanical or inductive limit switches for end position registering
- Optional intrinsically safe version acc. to ATEX / IECEx

Electrical connection		**Number of end position feedback switches**
Cable gland	M12 connector[1.)]	2x Micro – or inductive

Approvals		
ATEX cat. 3GD, IECEx	ATEX cat. 2DG, IECEx	Without

Position feedback switch		
Micro switch 24 V DC	Micro switch 50…225 V DC/AC	Inductive switch 3-wire PNP
Inductive switch 2-wire NAMUR	Inductive switch 2-wire 24 V DC	Without

1.) Applicable only with inductive switch 3-wire PNP

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