DATA SHEET

Type 2033

Pneumatically operated diaphragm valve with CLASSIC actuator

Tank bottom diaphragm valve with pneumatic plastic actuator (Type CLASSIC)

- Valve body and diaphragm are available in various materials and variants
- Product wetted surfaces in Ra ≤ 0.38 µm…1.6 µm (optionally electropolished)
- Available in all common connection sizes and variants

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

Can be combined with

Type 2034 ▸
Multifunction block and weld solution

Type 3233 ▸
2/2 way diaphragm valve with manually operated actuator

Type 8690 ▸
Pneumatic control for decentralised automation of ELEMENT process valves

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

Type description

The externally controlled diaphragm valve Type 2033 consists of a pneumatically operated piston actuator, a diaphragm and a tank bottom valve body. The proven and robust actuator with a plastic housing ensures use in hygienic or aggressive ambient conditions. The flow-efficient valve bodies with little dead space enable high flow rates and a wide range of possible uses. The valve body and the diaphragm are available in all common materials and variants. The actuator has a compact, autoclavable design (PPS variant). The integration of the automation units 8690/8697 is possible in all configuration levels (can be retrofitted). An explosion-proof ATEX / IECEx device variant is available.

The add-on body is optionally available in plastic or stainless steel. The actuator is equipped with an integrated, optical position indicator as standard, optionally a min./max. stroke limiter can be installed.

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Visit product website ▸

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1. General technical data

Product properties	
Dimensions	Detailed information can be found in chapter "4. Dimensions" on page 6.
Material	
Block body (VH)[1.)]	Stainless steel 1.4435/316 L
Block body (VI)[1.)]	Stainless steel 1.4435/BN2/ASME BPE; Fe < 0.5 %/C ≤ 0.03 %
Diaphragm	EPDM (AD)[1.)], PTFE/EPDM (EA)[1.)], advanced PTFE/EPDM (EU)[1.)], Gylon®/EPDM laminated (ER)[1.)]
Actuator	PPS, PA
Diaphragm size	8…100
Standard surface quality	
Block body (VH/VI)[1.)]	Internal electrically polished : Ra ≤ 0.38 µm (NO17)[1.)] (ASME BPE SF4/DIN HE4) (external Ra ≤ 1.6 µm) Internal mechanically polished : Ra ≤ 0.5 µm (NO14)[1.)] (ASME BPE SF1) (external Ra ≤ 1.6 µm)
Performance data	
Pilot pressure (max.)	7 bar (for actuator size 40[1.)]…125[1.)]/PPS) 6 bar (for actuator size 175[1.)] and 225[1.)]/PA) See "5.1. Medium pressure" on page 11
Pilot air port	Thread G ¼; thread G ⅛ for actuator size 40 and 50
Medium data	
Medium	Neutral gases and fluids, highly purified, sterile, aggressive or abrasive medium (see **Resistance Chart** ▶)
Medium temperature	
EPDM (AD)[1.)]	-10…+143 °C (steam sterilisation +150 °C for 60 min)
PTFE/EPDM (EA)[1.)]	-10…+130 °C (steam sterilisation +140 °C for 60 min)
Advanced PTFE/EPDM (EU)[1.)]	-5…+143 °C (steam sterilisation +150 °C for 60 min)
GYLON®/EPDM laminated (ER)[1.)]	-5…+130 °C (steam sterilisation +140 °C for 60 min)
Control medium	Neutral gases, air
Process/Port connection & communication	
Nominal diameter	DN06…DN100 (⅛" …4")
Port connections[2.)]	
Welded connection[2.)]	DIN EN ISO 1127/ISO 4200/DIN 11866 series B DIN 11850 series 2/DIN 11866 series A/DIN EN 10357 series A ASME BPE/DIN 11866 series C
Clamp connection[2.)]	DIN 32676 series A (DIN pipe) DIN 32676 series B (ISO pipe) ASME BPE
Environment and installation	
Installation position/Installation	See **operating manual** ▶
Ambient temperature	
PPS Actuator size ≤ 80 mm	+5…140 °C
PPS Actuator size 100 mm, 125 mm	+5…90 °C (briefly at +140 °C)
PA Actuator size ≤ 125 mm	-10…+60 °C
PA Actuator size ≥ 175 mm	-10…+50 °C

1.) This information is part of the product key (see product enquiry form at the end of this data sheet)

2.) Further versions on request

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2. Approvals

Note:
If you need one of these certificates, please contact your Bürkert partner.

Approvals/ Conformity/ Certificate[1.]	Description
	ATEX/IECEx[2.] EPS 18 ATEX 2 008 X II 2G Ex h IIC T4 Gb/II 2D Ex h IIIC T135 °C Db IECEx EPS 18.0007X Ex h IIC T4 Gb/Ex h IIIC T135 °C Db
TA air	TA air[3.]
	3-A (3-A Sanitary Standards Symbol Administrative Council)[4.]
	The diaphragms made of EPDM (AD), PTFE/EPDM (EA), advanced PTFE/EPDM (EU) and GYLON®/ EPDM laminated (ER) are suitable for use with food and beverages (acc. to EC Regulation 1935/2004/ EC).
	Diaphragms made of EPDM (AD), PTFE/EPDM (EA), advanced PTFE/EPDM (EU) and GYLON®/EPDM laminated (ER) are acc. to USP Class VI tested.
FDA	Diaphragms made of EPDM (AD), PTFE/EPDM (EA), advanced PTFE/EPDM (EU) and GYLON®/EPDM laminated (ER) comply with the Code of Federal Regulations published by the FDA (Food and Drug Administration, USA).

1.) Further approvals/conformity clarification/certificates on request

2.) Only in combination with variable code «PX51» (see product enquiry form at the end of this data sheet)

3.) Only in combination with variable code «PM01» (see product enquiry form at the end of this data sheet)

4.) Only in combination with variable code «PE05» (see product enquiry form at the end of this data sheet)

3. Materials

3.1. 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

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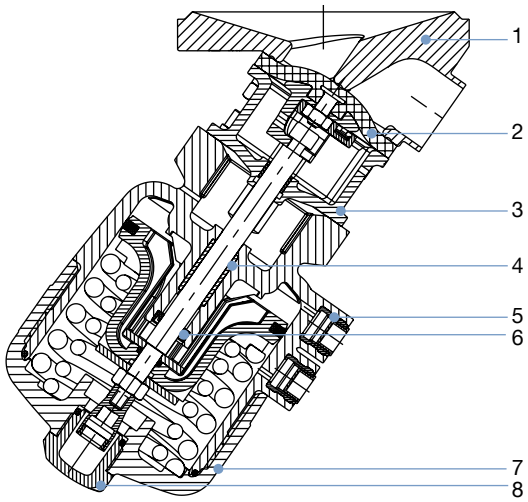
3.2. Material specifications

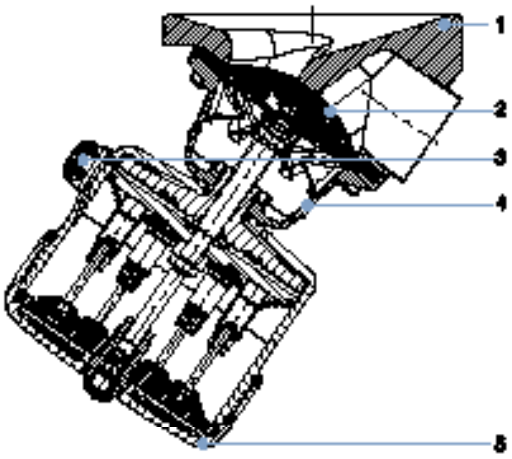
Note:
Exemplary representation may differ from the actual product.

Actuator size 40...125



No.	Element	Material
1	Valve body	See "1. General technical data" on page 3
2	Diaphragm	EPDM (AD), PTFE/EPDM (EA), advanced PTFE/ EPDM (EU), Gylon®/EPDM laminated (ER)
3	Interface	Stainless steel 1.4404
4	Socket	Sinter metal
5	Pilot air ports	Stainless steel 1.4305
6	Piston seal	FKM
7	Cover	Polyphenylene sulphide PPS (Standard) Polyamide PA (on request)
8	Transparent cap	Polysulfone PSU

Actuator size 175 and 225



No.	Element	Material
1	Valve body	See "1. General technical data" on page 3
2	Diaphragm	EPDM (AD), PTFE/EPDM (EA), advanced PTFE/ EPDM (EU), Gylon®/EPDM laminated (ER)
3	Pilot air ports	Stainless steel 1.4305
4	Attachment housing	Stainless steel 1.4308
5	Cover	Polyamide PA

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3.3. Example of available membrane materials

The diaphragms have been developed to meet the unique challenges of hygienic and sterile requirements. Bürkert offers diaphragms with precise material composition and high accuracy. Bürkert diaphragms are available in a wide range of materials which have been tested and proven in applications in the food and beverage, biotechnology, pharmaceutical and cosmetics industries. The diaphragms are tested during development and production to ensure reliability under difficult process conditions.

- EPDM (AD)
- PTFE/EPDM (EA)
- advanced PTFE/EPDM (EU)
- Gylon®/EPDM laminated (ER)

For further information please refer to our flyer “Diaphragm competence for hygienic applications” on our **website** ▶.

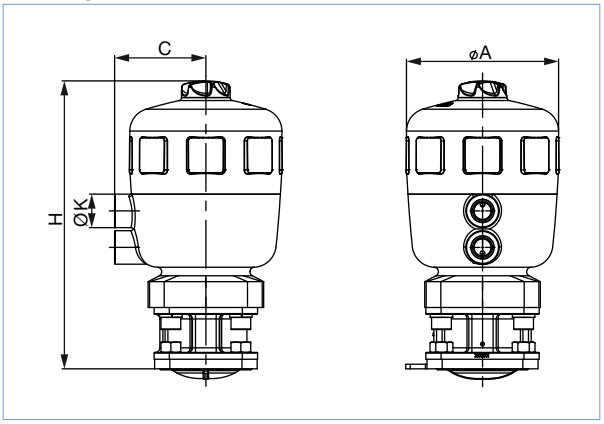
4. Dimensions

4.1. Actuator

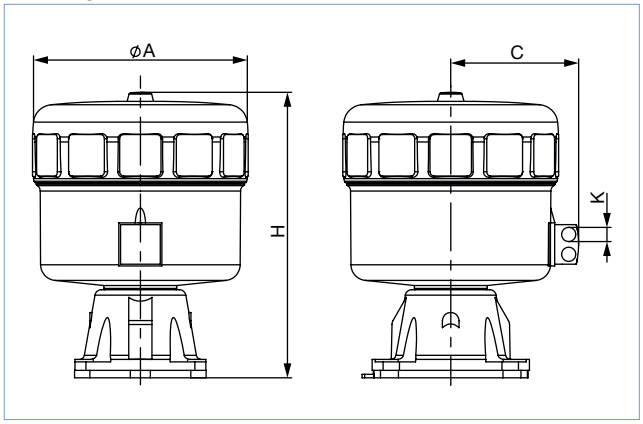
CLASSIC actuator with interface for block mounting (MT85)

Note:
Dimensions in mm, unless otherwise stated

Diaphragm size 8…50



Diaphragm size 65…100



Diaphragm size	Actuator size Ø	ØA	C	K	H
8	40 (C)	53	34	G ⅛”	111
15	50 (D)	64	39	G ⅛”	137
	63 (E)	80	52	G ¼”	154
20	63 (E)	80	52	G ¼”	165
	80 (F)	101	52	G ¼”	186
25	63 (E)	80	52	G ¼”	170
	80 (F)	101	60	G ¼”	190
40	100 (G)	127	73	G ¼”	246
	125 (H)	158	86	G ¼”	284
50	100 (G)	127	73	G ¼”	254
	125 (H)	158	86	G ¼”	288
65	175 (K)	211	130	G ¼”	350
80	175 (K)	211	130	G ¼”	350
	225 (L)	261	155	G ¼”	345
100	225 (L)	261	155	G ¼”	345

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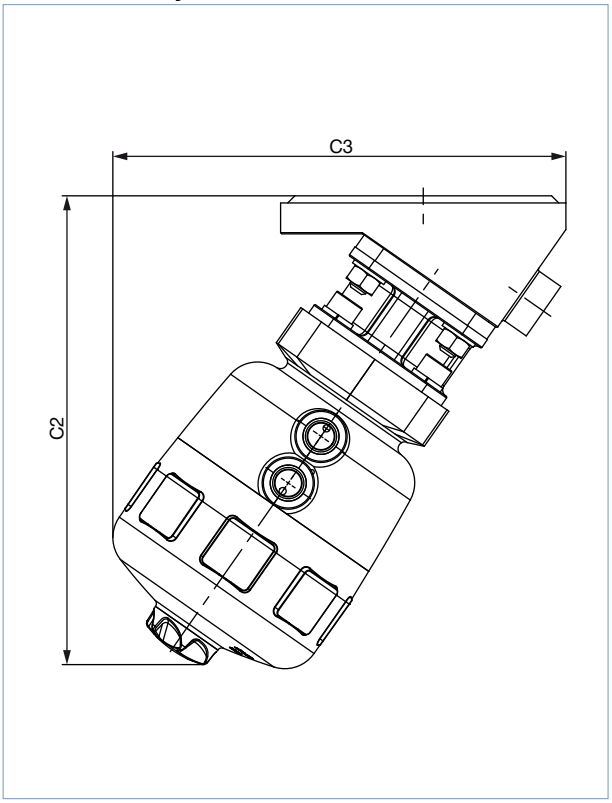
CLASSIC actuator with tank bottom body

Note:
Dimensions in mm, unless otherwise stated

Tank bottom body without control unit



Diaphragm size	Actuator size Ø	C2	C3
15	80 (F)		
20	80 (F)	190	178
25	80 (F)	199	191
40	125 (H)	296	288
50	125 (H)	304	313
65	125 (H)	394	383
	175 (K)		
80	175 (K)	390	420
	225 (L)	401	435
100	175 (K)	425	442
	225 (L)	431	455

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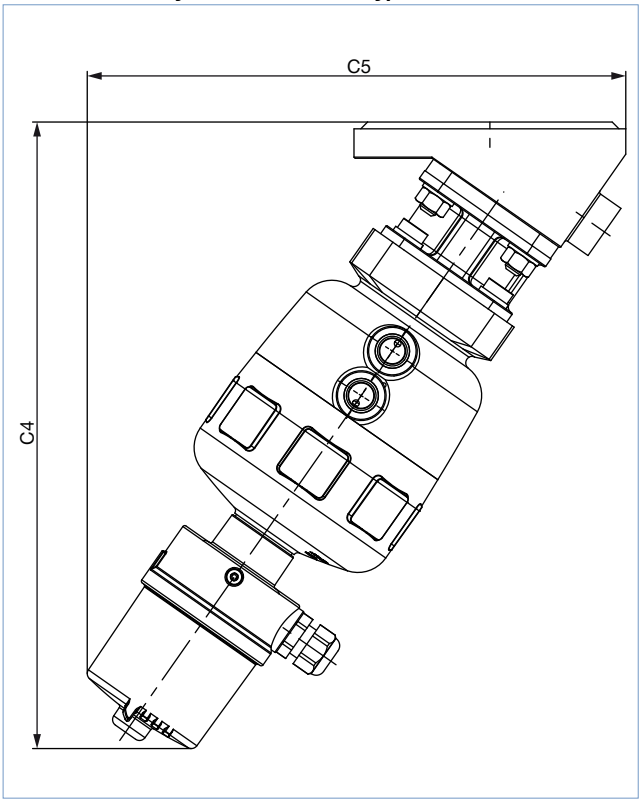
Tank bottom body with control unit Type 8697



Diaphragm size	Actuator size Ø	C4	C5
15	50 (D)	215	206
	63 (E)	228	216
20	63 (E)	250	213
	80 (F)	267	225
25	63 (E)	262	228
	80 (F)	277	238
40	100 (G)	331	299
	125 (H)	369	321
50	100 (G)	340	330
	125 (H)	372	353

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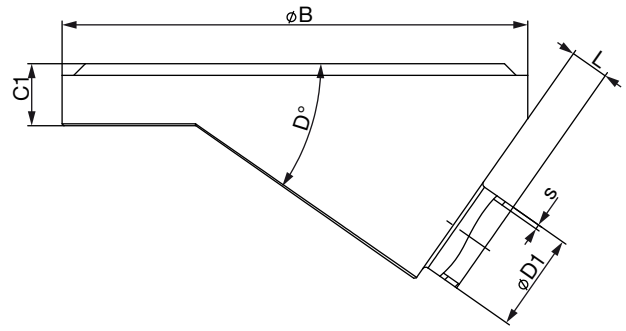
4.2. Tank bottom body with welded connection

Note:
Dimensions in mm, unless otherwise stated



Diaphragm size	Port connection DN	ØB	C1	D	ØA	s	L	Product key[1.)]
DIN EN ISO 1127/ISO 4200/DIN 11866 series B								
8	8	50	8	35°	13.5	1.6	5	SA40
15	15	65	12	35°	21.3	1.6	4	SA42
		85					8	SA42
20	20	85	12	35°	26.9	1.6	5.6	SA43
25	25	120	16	35°	33.7	2	8	SA44
40	32	150	18	35°	42.4 (Port 32)	2	20	SA45
	40				48.3		15	SA46
50	50	180	22	35°	60.3	2	12	SA47
80	65	225	20	40°	76.1	2	16	SA48
	80				88.9	2.3	10	SA49
100	100	298	30	40°	114.3	2.3	16.5	SA39
DIN 11850 series 2/DIN 11866 series A/DIN EN 10357 series A								
8	10	50	8	35°	13	1.5	5	SD40
15	15	85	12	35°	19	1.5	8	SD42
20	20	85	12	35°	23	1.5	7	SD43
25	25	120	16	35°	29	1.5	8	SD44
40	40	150	18	35°	41	1.5	20	SD46
50	50	180	22	35°	53	1.5	15	SD47
80	80	225	20	40°	85	2	16	SD49
100	100	298	30	40°	104	2	14	SD50
ASME BPE/DIN 11866 series C								
8	¼”	50	8	35°	6.35	0.89	6	SA90
15	½”	85	12	35°	12.7	1.65	10	SA92
20	¾”	85	12	35°	19.05	1.65	8	SA93
25	1”	120	16	35°	25.4	1.65	12	SODF
40	1½”	150	18	35°	38.1	1.65	15	SODH
50	1½”	180	22	35°	38.1	1.65	25	SODH
	2”				50.8		15	SODI
	2½”				63.5		11	SODJ
80	2½”	225	20	40°	63.5	1.65	25	SODJ
	3”				76.2		16	SODK
100	4”	298	30	40°	101.6	2.11	14	SODL
SMS 3008								
25	25	120	16	35°	25	1.2	8	SA60
40	40	150	18	35°	38	1.2	20	SA62
50	50	180	22	35°	51	1.2	15	SA63

1.) This information is part of the product key (see product enquiry form at the end of this data sheet)

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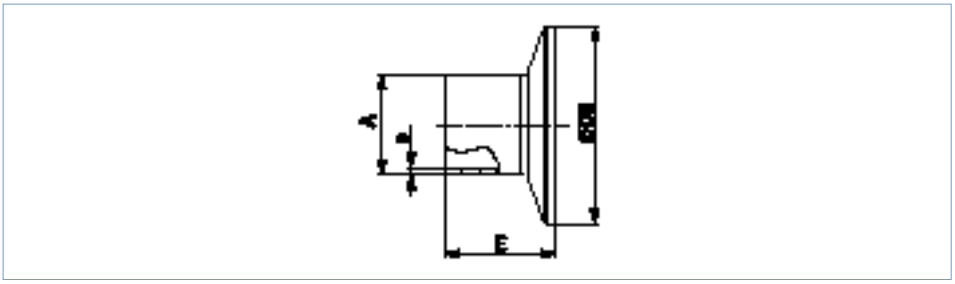
4.3. Tank bottom body with clamp connection

Note:

- Dimensions in mm, unless otherwise stated
- Clamp dimensions must be added to the welded connection dimensions.



Port connection		A	s	D3	E	Product key
[mm]	[inch]					
DIN 32676 series A (DIN pipe)						
10	–	13	1.5	34.0	18	TD41
15	–	19	1.5	34.0	18	TD42
20	–	23	1.5	34.0	18	TD43
25	–	29	1.5	50.5	21.5	TD44
32	–	35	1.5	50.5	21.5	TD45
40	–	41	1.5	50.5	21.5	TD46
50	–	53	1.5	64.0	21.5	TD47
DIN 32676 series B (ISO pipe)						
8	–	13.5	1.6	25.0	28.6	TC40
8	–	13.5	1.6	34.0[2.)]	28.6	TC51[2.)]
10	–	17.2	1.6	34.0[2.)]	28.6	TC41[2.)]
15	–	21.3	1.6	34.0[2.)]	28.6	TC42[2.)]
15	–	21.3	1.6	50.5	28.6	TC52
20	–	26.9	1.6	50.5	28.6	TC43
25	–	33.7	2	50.5	28.6	TC44
32	–	42.4	2	50.5[2.)]	28.6	TC45[2.)]
40	–	48.3	2	64.0	28.6	TC46
50	–	60.3	2	77.5	28.6	TC47
ASME BPE						
8	¼”	6.35	0.89	25.0	28.6	TG50
10	⅜”	9.53	0.89	25.0	28.6	TG01
15	½”	12.7	1.65	25.0	28.6	TG02
20	¾”	19.05	1.65	25.0	28.6	TG03
25	1”	25.4	1.65	50.5	28.6	TG04
40	1½”	38.1	1.65	50.5	28.6	TG05
50	2”	50.8	1.65	64.0	28.6	TG06

1.) This information is part of the product key (see product enquiry form at the end of this data sheet)

2.) Deviating from the standard because of different outside clamp diameter

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5. Performance specifications

5.1. Medium pressure

Information for control function A

Note:

- For low operating pressures, optional versions with reduced spring force are recommended.
- Pressure data [bar]: Overpressure to atmospheric pressure. Valve closes dynamically against max. operating pressure.
- Information for control function B and I on request.

Diaphragm size	Actuator size Ø	Pilot pressure	Max. operating pressure for seal material	
			EPDM, FKM	PTFE/EPDM, advanced PTFE/EPDM, GYLON®/EPDM laminated
DN	[mm]	[bar]	[bar]	[bar]
8	40 (C)	5.0…7	10	10
15	50 (D)	5.0…7	8.5	5
	63 (E)	5.0…7	10	10
20	63 (E)	5.5…7	10	5
	80 (F)	5.0…7	10	10
25	80 (F)	5.5…7	10	7.5
40	100 (G)	5.5…7	6.5	6[1.)]
	125 (H)	5.5…7	10	10
50	125 (H)	5.5…7	8	7
65	175 (K)	5.0…6	8	5
80	175 (K)	5.0…6	5	4.5
	225 (L)	5.0…6	10	7[2.)]
100	225 (L)	5.0…6	8	4

1.) Max. operating pressure for GYLON®/EPDM laminated is 4 bar

2.) Max. operating pressure for GYLON®/EPDM laminated is 8.5 bar

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6. Product accessories

Electrical position feedback	
Type 8697 ▸ Actuator size Ø40…225 mm	**Description**
	The position feedback Type 8697 is designed for integrated mounting on process valves of the CLASSIC series and especially for the requirements of hygienic process environments. Mechanical or inductive limit switches detect the valve position. **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/IECEx **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

7. Networking and combination with other Bürkert products

The **On/Off CLASSIC valve system, Type 8801-DG,** consists of **diaphragm valve, Type 2033** and **position feedback, Type 8697**.

Note:

- You order two components and receive a completely assembled and tested valve.

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8. Ordering information

8.1. 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

8.2. 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

8.3. Bürkert product enquiry form

Bürkert product enquiry form: Would you like to make a specific product enquiry based on your technical requirements? Please use our product enquiry form **at the end of this data sheet**. There you will find all the information relevant to your Bürkert contact person that will help us to process your enquiry in the best possible way.

Bürkert specification key: In our product enquiry form you will find a complete explanation of the composition of our specification key. You will find our product enquiry form **at the end of this data sheet**.

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Bürkert – Close to You

For up-to-date addresses
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www.burkert.com

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Product Enquiry Form - Diaphragm valve with globe valve, T-valve or tank bottom valve

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**! *

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

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

Delivery

Required delivery date

Operating data	
Process medium	
Medium	○ Liquid ○ Steam ○ Gas ○ CIP ○ SIP
Medium temperature	T_{med}
Medium pressure	P_{med}

Valve data				
Surface quality (valid for stainless steel)	○ Standard: Ra 0.5 internal ○ Non standard: internal	Ra 0.38 e-pol internal external	Plastic	
Body material				
Body design	○ 2 way valve	○ T-valve	○ Tank bottom valve	
Seal material	○ EPDM	○ PTFE	○ GYLON®	○ others
Nominal diameter	DN			
Pilot pressure	min.	max.		
Connection	○ **Weld end**	EN ISO 1127 / ISO 4200 DIN 11866 R. B	DIN 11850 DIN 11866 R. A	ASME BPE DIN 11866 R. C
	○ **Clamp connection**	DIN 32676 R. B (ISO tube (ISO4200))	DIN 32676 R. A (DIN tube (DIN11850))	ASME BPE
	○ **Plastic**	Flange	Threated	Spigot
	○ **Others**			

Article no. (if known)

☐ Are you interested in ordering a complete Valve System Open/Close or Continuous?
For more information on Valve Systems Open/Close or Continuous, please visit our **Website** ▸.

Additional Requirements / Comment

Send form Delete form

Visit this product area on the website ▸

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Product Enquiry Form
Diaphragm valve with straight way valve, T-valve or tank bottom valve

bürkert

Specification key

Note:

- Please fill out this Product Inquiry Form as completely as possible!
- For more information on Valve Systems Open/Close or Continuous, please visit our **Website ▸**.
- See **Specification key - Examples** how to fill in the specification key.

		Quantity	Type	Control function	Nominal diameter diaphragm	Diaphragm material	Body material	Port connection	Port connection	Actuator version	Actuator size	Pilot air port	Actuator		Variable	Variable	Variable
Key Feature			TYP	SF	DN	DWST	WKST	LTA1	LTA2	ANTA	ANTG	STLA	ANTR	*	VAR1	VAR2	VAR3
Key No. →			**1**	**2**	**3**	**4**	**5**	**6**	**6**	**7**	**8**	**9**	**10**		**V1**	**V2**	**V3**
1	**Selection →**	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	*	☐	☐	☐
	Comments		☐														
2	**Selection →**	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	*	☐	☐	☐
	Comments		☐														
3	**Selection →**	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	*	☐	☐	☐
	Comments		☐														
4	**Selection →**	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	*	☐	☐	☐
	Comments		☐														
5	**Selection →**	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	*	☐	☐	☐
	Comments		☐														
6	**Selection →**	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	*	☐	☐	☐
	Comments		☐														

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Specification key - Examples

2 way diaphragm valve

Type 2030 ▸ CLASSIC with plastic body

Type 2031 ▸ CLASSIC with stainless steel body

Type 2063 ▸ INOX with stainless steel body

Type 2103 ▸ ELEMENT with stainless steel or plastic body

Type 3232 ▸ Manually operated with plastic body

Type 3233 ▸ Manually operated with stainless steel body

T-diaphragm valve

Type 2032 ▸ CLASSIC T-valve

Type 2064 ▸ INOX T-valve

Type 2104 ▸ ELEMENT T-valve

Type 3234 ▸ Manually operated T-valve

Tank bottom diaphragm valve

Type 2033 ▸ CLASSIC Tank bottom valve

Type 2065 ▸ INOX Tank bottom valve

Type 2105 ▸ ELEMENT Tank bottom valve

Type 3235 ▸ Manually operated tank bottom valve

	Type	Control function	Nominal diameter diaphragm	Diaphragm material	Body material	Port connection	Port connection	Actuator version	Actuator size	Pilot air port	Actuator		Variable	Variable	Variable
Key Feature	TYP	SF	DN	DWST	WKST	LTA1	LTA2	ANTA	ANTG	STLA	ANTR	*	VAR1	VAR2	VAR3
Key No. →	**1**	**2**	**3**	**4**	**5**	**6**	**6**	**7**	**8**	**9**	**10**		**V1**	**V2**	**V3**
2 way diaphragm valve															
Type 2030 CLASSIC	2030	A	20.0	AD	PV	KM26	–	C	E	–	–				
Type 2031 CLASSIC	2031	A	20.0	AD	VS	SA93	–	C	E	–	–		NK52	NO14	
Type 2063 INOX	2063	A	20.0	AD	VS	SA93	–	H	M	–	–		NK52	NO14	
Type 2103 ELEMENT	2103	A	20.0	AD	PV	KM26	–	G	M	FA01	–				
Type 2103 ELEMENT	2103	A	20.0	AD	VS	SA93	–	G	M	FA01	–		NK52	NO14	
Type 3232	3232	–	20.0	AD	PV	KM26	–	–	–	–	D050				
Type 3233	3233	–	20.0	AD	VS	SA93	–	–	–	–	D051		NK52	NO14	
T-diaphragm valve															
Type 2032 CLASSIC	2032	A	20.0	AD	VH	SODH	SA93	D	E	–	–		NK52	NO14	
Type 2064 INOX	2064	A	20.0	AD	VH	SODH	SA93	–	M	–	–		NK52	NO14	
Type 2104 ELEMENT	2104	A	20.0	AD	VH	SODH	SA93	–	M	FA01	–		NK52	NO14	
Type 3234	3234	–	20.0	AD	VH	SODH	SA93	–	–	–	D050		NK52	NO14	
Tank bottom diaphragm valve															
Type 2033 CLASSIC	2033	A	20.0	AD	VH	SA93	–	D	F	–	–		NK52	NO14	
Type 2065 INOX	2065	A	20.0	AD	VH	SA93	–	–	M	–	–		NK52	NO14	
Type 2105 ELEMENT	2105	A	20.0	AD	VH	SA93	–	–	M	FA01	–		NK52	NO14	
Type 3235	3235	–	20.0	AD	VH	SA93	–	–	–	–	D050		NK52	NO14	

1.) NK52, NOxx only for stainless steel bodies

Visit this product area on the website ▸

bürkert

Key Legend

Note:

- Other versions on request
- Available Type sizes see corresponding data sheet

Key no. 2: Control function (SF)	
A	Closed with spring force
B	Open with spring force
I	Without pressure spring

Key no. 3: Nominal diameter diaphragm (DN)			
8	25	50	100
15	32	65	
20	40	80	

Key no. 4: Diaphragm material (DWST)	
AD	EPDM
EA	PTFE/EPDM
EU	Advanced PTFE/EPDM laminated
ER	Gylon®/EPDM laminated

Key no. 5: Body material (WKST)	
PD	PVDF (Polyvinylidene fluoride)
PP	PP (Polypropylene)
PV	PVC-U (Polyvinyl chloride)
VG	Stainless steel precision casting 1.4435/316L
VH	Stainless steel block material 1.4435/316L
VI	Stainless steel block material 1.4435 BN2/316L ASME BPE
VP	Stainless steel tube 1.4435 BN2/316L
VS	Stainless steel-forged 1.4435 BN2/316L ASME BPE

Key no. 6: Port connection (LTA1, LTA2)
Listed in detail below

Key no. 7: Actuator version (ANTA)	
C	PA actuator (only CLASSIC)
D	PPS actuator (only CLASSIC)
G	ELEMENT design actuator (only ELEMENT)
H	St. St. actuator (only INOX)

Key no. 8: Actuator size (ANTG)	
B	ø 32
C	ø 40
D	ø 50
E	ø 63
F	ø 80
G	ø 100
H	ø 125
K	ø 175
L	ø 225
M	ø 70
N	ø 90
P	ø 130

Key no. 9: Pilot air port (ELEMENT) (STLA)	
FA01	Pilot air port Push-In 6/4, ¼"
FA02	Pilot air port G⅛
FA03	Interface ELEMENT control

Key no. 10: Actuator (ANTR)	
D050	Handwheel and attachment PPS
D051[1.)]	Handwheel PPS and attachment St. St.
D052[2.)]	Handwheel and attachment St. St.

1.) Alternatively D058

2.) Alternatively D059 or D102

Key no. V1, V2, ...: Variable code (VAR1, VAR2, VAR3)	
NK52[3.)]	Acceptance test certificate 3.1 according to EN 10204
NO14[3.)]	Mechanically polished Ra ≤ 0.5 µm (ASME BPE SF1)
NO17[3.)]	Electropolished Ra ≤ 0.38 µm (ASME BPE SF4 / DIN HE4)
NO06[3.)]	Mechanically polished Ra ≤ 0.76 µm (ASME BPE SF3 / DIN H2)
NO16[3.)]	Electropolished Ra ≤ 0.6 µm (ASME BPE SF6)
EC04	Reduced spring force

3.) NK52, NOxx only for stainless steel bodies

Key no. 6: Port connection (LTA)

Weld connection								
DN [mm]	**EN ISO 1127 / ISO 4200 DIN 11866 R. B**	**SMS 3008**	**DIN 11850 R. 0**	**DIN 11850 R. 1**	**DIN 11850 R. 2 DIN 11866 R. A**	**DIN 11850 R. 3**	**BS4825**	**ASME BPE DIN 11866 R. C**
4	–	–	SC40-6.0×1.0	–	–	–	–	–
6	SA78-10.2×1.6	–	SC41-8.0×1.0	–	–	–	–	SA89-3.17×0.56
8	SA40-13.5×1.6	–	SC42-10.0×1.0	–	–	–	SODB-6.35×1.2	SA90-6.35×0.89
10	SA41-17.2×1.6	–	–	SF40-12.0×1.0	SD40-13.0×1.5	SE40-14.0×2.0	SODC-9.53×1.2	SA91-9.53×0.89
15	SA42-21.3×1.6	SA58-12.0×1.0	SC43-18.0×1.5	SF41-18.0×1.0	SD42-19.0×1.5	SE42-20.0×2.0	SODD-12.7×1.2	SA92-12.7×1.65
20	SA43-26.9×1.6	SA59-18.0×1.0	SC44-22.0×1.5	SF42-22.0×1.0	SD43-23.0×1.5	SE43-24.0×2.0	SODE-19.05×1.2	SA93-19.05×1.65
25	SA44-33.7×2.0	SA60-25.0×1.2	SC45-28.0×1.5	SF43-28.0×1.0	SD44-29.0×1.5	SE44-30.0×2.0	–	SODF-25.4×1.65
32	SA45-42.4×2.0	SA61-33.7×1.2	SC46-34.0×1.5	SF44-34.0×1.0	SD45-35.0×1.5	SE45-36.0×2.0	–	–
40	SA46-48.3×2.0	SA62-38.0×1.2	SC47-40.0×1.5	SF45-40.0×1.0	SD46-41.0×1.5	SE46-42.0×2.0	–	SODH-38.1×1.65
50	SA47-60.3×2.0	SA63-51.0×1.2	SC48-52.0×1.5	SF46-52.0×1.0	SD47-53.0×1.5	SE47-54.0×2.0	–	SODI-50.8×1.65
65	SA48-76.1×2.0	SA64-63.5×1.6	–	–	SD48-70.0×2.0	–	–	SODJ-63.5×1.65
80	SA49-88.9×2.3	SA65-76.1×1.6	–	–	SD49-85.0×2.0	–	–	SODK-76.2×1.65
100	SA39-114.3×2.3	SA66-101.6×2.0	–	–	SD50-104.0×2.0	–	–	SODL-101.6×2.11

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Clamp connection					
DN [mm]	**Clamp 34,0 similar to DIN 32676 R. B (ISO tube (ISO4200))**	**DIN 32676 R. A (DIN tube (DIN11850))**	**DIN 32676 R. B (ISO tube (ISO4200))**	**ASME BPE**	**BS 4825 (Clamp BS 4825-3, tube BS 4825-1)**
8	TC51-13.5×1.6 Cl: 34.0	TD40-10.0×1.0 Cl: 25.0	TC40-13.5×1.6 Cl: 25.0	TG 50-6.35×0.89 Cl: 25.0	–
10	TC41-17.2×1.6 Cl: 34.0	TD41-13.0×1.5 Cl: 34.0	TC53-17.2×1.6 Cl: 25.0	TG 01-9.53×0.89 Cl: 25.0	–
15	TC42-21.3×1.6 Cl: 34.0	TD42-19,,0×1.5 Cl: 34.0	TC52-21.3×1.6 Cl: 50.5	TG 02-12.7×1.65 Cl: 25.0	TH42-12.7×1.2 Cl: 25.0
20	–	TD43-23.0×1.5 Cl: 34.0	TC43-26.9×1.6 Cl: 50.5	TG 03-19.05×1.65 Cl: 25.0	TH43-19.05×1.2 Cl: 25.0
25	–	TD44-29.0×1.5 Cl: 50.5	TC44-33.7×2.0 Cl: 50.5	TG 04-25.4×1.65 Cl: 50.5	–
32	–	–	–	–	–
40	–	TD46-41.0×1.5 Cl: 50.5	TC46-48.3×2.0 Cl: 64.0	TG 05-38.1×1.65 Cl: 50.5	–
50	–	TD47-53.0×1.5 Cl: 64.0	TC47-60.3×2.0 Cl: 77.5	TG 06-50.8×1.65 Cl: 64.0	–
65	–	–	TC48-76.1×2.0 Cl: 91.0	TG 07-63.5×1.65 Cl: 77.5	–
80	–	–	TC49-88.9×2.3 Cl: 106.0	TG 08-76.2x,65 Cl: 91.0	–
100	–	–	TC50-114.3×2.3 Cl: 130.0	TG 09-101.6×2.11 Cl: 119.0	–

Plastic connection					
DN [mm]	**Welded connection socket (only WKST=PD, PP)**	**Welded connection threated socket (only WKST=PD, PP)**	**Adhesive bond socket (only WKST=PV)**	**Adhesive bond threated socket (only WKST=PV)**	**Loose-type flange (up to DN65) Fixed flange (from DN80)**
15	SS25 - ø20	SM25 - ø20	KS25 - ø20	KM25 - ø20	FL24
20	SS26 - ø25	SM26 - ø25	KS26 - ø25	KM26 - ø25	FL25
25	SS27 - ø32	SM27 - ø32	KS27 - ø32	KM27 - ø32	FL26
32	SS28 - ø40	SM28 - ø40	KS28 - ø40	KM28 - ø40	FL27
40	SS29 - ø50	SM29 - ø50	KS29 - ø50	KM29 - ø50	FL28
50	SS30 - ø63	SM30 - ø63	KS30 - ø63	KM30 - ø63	FL29
65	–	–	–	–	FL30
80	–	–	–	–	FF31
100	–	–	–	–	FF32

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Control heads / pneumatic control for on/off process valves of the CLASSIC series

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
Cable gland | M12 connector[1.)]

Number of end position feedback switches
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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