Pneumatically operated 2/2-way diaphragm valve INOX (REV.1)

- Valve body and diaphragm are available in various materials and variants
- Wetted surfaces from 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.
The German or English (EU) data sheet is the master version. Other language versions may be temporarily out of date and will be updated accordingly.

Can be combined with

Type SV02 ▸
Diaphragms

Type 2034 ▸
Multifunction block solutions

Type 2933 ▸
2/2-way diaphragm valve with manually operated actuator (basic)

Type 2036 ▸
Robolux multiway diaphragm valve, pneumatically operated

Type 8652 ▸
AirLINE – the valve island optimised for process automation

Type 8098 ▸
FLOWave SAW flowmeter

Type description

The externally controlled diaphragm valve, Type 2063, consists of a pneumatically operated stainless steel piston actuator, a diaphragm and a 2-way body. The proven and robust actuator with stainless steel valve body ensures use under hygienic or aggressive environmental conditions. The flow-efficient valve body with little dead space enables 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 with a large stainless steel body, high temperature resistance and gap-free seals. The integration of the automation units Type 8697 is possible in all expansion stages (can be retrofitted). The actuator is provided with an integrated, optical position indicator as standard.

Refer to both available data sheets for Type 2063:
- Pneumatically actuated diaphragm valve INOX (new actuator generation)
- Pneumatically actuated diaphragm valve INOX (REV.1) (previous actuator generation)

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Christian Bürkert GmbH & Co. KG, subject to change without notice

Visit product website ▸

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1. General technical data

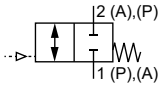
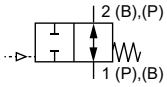
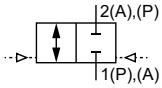
Product properties	
Dimensions	Further information can be found in chapter "5. Dimensions" on page 8.
Material	
Forged steel valve body (VS) [1.]	Forged stainless steel 1.4435 in accordance with BN2 DIN EN 10222 - 5, F316L in accordance with to ASTM, A182/A182M and 316L in accordance with to ASME BPE
Tube valve body (VP) [1.]	Stainless steel tube 1.4435-BN2 / UNS S31603 (316L) according to DIN 11866, ASTM A269 / A270, DIN EN 10217 - 7 / 10216 - 5
Cast valve body (VG) [1.]	Stainless steel precision casting 1.4435 / 316L
Diaphragm	EPDM (AD) [1.], PTFE/EPDM (EA) [1.], Advanced PTFE/EPDM (EU) [1.], laminate of GYLON® and EPDM (ER) [1.]
Actuator casing	Stainless steel 1.4404
Diaphragm socket	Stainless steel 1.4308
Diaphragm size	8...50
Standard surface quality	
Forged steel valve body (VS) [1.]	Internally electrically polished: Ra ≤ 0.38 µm (NO17) [1.] (ASME BPE SF4 / DIN HE4) (externally forged surface, electrically polished) Internally mechanically polished: Ra ≤ 0.5 µm (NO14) [1.] (ASME BPE SF1) (externally forged surface)
Tube valve body (VP) [1.]	Internally electrically polished: Ra ≤ 0.38 µm (NO17) [1.] (ASME BPE SF4 / DIN HE4) (externally electrically polished) Internally glass bead blasted: Ra ≤ 1.6 µm (NO05) [1.] (externally glass bead blasted (NO01) [1.])
Cast valve body (VG) [1.]	Internally electrically polished: Ra ≤ 0.6 µm (NO16) [1.] (ASME BPE SF6) (externally cast surface, electrically polished) Internally mechanically polished: Ra ≤ 0.76 µm (NO06) [1.] (ASME BPE SF3 / DIN H2) (externally cast surface)
Performance data	
Maximum pilot pressure (SF A)	10.5 bar 7.5 bar for actuator size 130 [1.] See "6.2. Medium pressure" on page 21
Pilot air port	Thread G ⅛, M5 for actuator size B
Medium data	
Operating medium	Neutral gases and liquids, highly purified, sterile, aggressive or abrasive mediums (see **resistance chart** ▶)
Medium temperature	
EPDM (AD) [1.]	- 10 °C...+ 143 °C (steam sterilisation [3.] max. + 150 °C for 60 min)
PTFE/EPDM (EA) [1.]	- 10 °C...+ 130 °C (steam sterilisation [3.] max. + 140 °C for 60 min)
PTFE/EPDM (EU) [1.]	- 5 °C...+ 143 °C (steam sterilisation [3.] max. + 150 °C for 60 min)
Laminate of GYLON® and EPDM (ER) [1.]	- 5 °C...+ 130 °C (steam sterilisation [3.] max. + 140 °C for 60 min)
Control medium	Neutral gases, air
Product connections	
Port connection [2.]	
Nominal diameter	DN 08...DN 65 (according to body variant)
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	
Environmental factors	Protect the device from electromagnetic interference, UV radiation and, when used outdoors, from weather conditions.
Ambient temperature	0 °C...+ 80 °C, autoclavable
Installation position	See **operating manual Type 2063** ▶

1.) This information is part of the product key (see "9.3. Bürkert Product Enquiry Form" on page 23).

2.) Other variants are available on request.

3.) Extending the sterilisation time is permitted, but may affect the service life and maintenance intervals.

2. Control functions

Symbol	Description
	**Control function A (CF A)** Pneumatically operated 2/2-way on/off valve Bidirectional Normally closed by spring force
	**Control function B (CF B)** Pneumatically operated 2/2-way on/off valve Bidirectional Normally opened by spring force
	**Control function I (CF I)** Pneumatically operated 2/2-way on/off valve on either side Bidirectional Switching position dependent on external control

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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 approvals or conformities indicated below.

3.2. Conformity

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

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. Foods and beverages/Hygiene

Conformity	Description
FDA	**FDA – Code of Federal Regulations** The diaphragms made of EPDM (AD), PTFE/EPDM (EA), Advanced PTFE/EPDM (EU) and laminate of GYLON® and EPDM (ER) comply with the Code of Federal Regulations published by the FDA (Food and Drug Administration, USA).
USP	**United States Pharmacopeial Convention (USP)** The diaphragms made of EPDM (AD), PTFE/EPDM (EA), Advanced PTFE/EPDM (EU) and laminate of GYLON® and EPDM (ER) are tested according to USP Class VI.
	EC Regulation 1935/2004 of the European Parliament and of the Council The diaphragms made of EPDM (AD), PTFE/EPDM (EA), Advanced PTFE/EPDM (EU) and laminate of GYLON® and EPDM (ER) are suitable for use with food and beverages (according to EC Regulation 1935/2004/EC).

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3.6. Others

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

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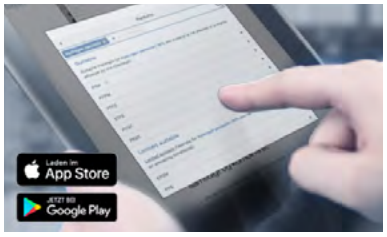
4. Materials

4.1. Bürkert resistApp



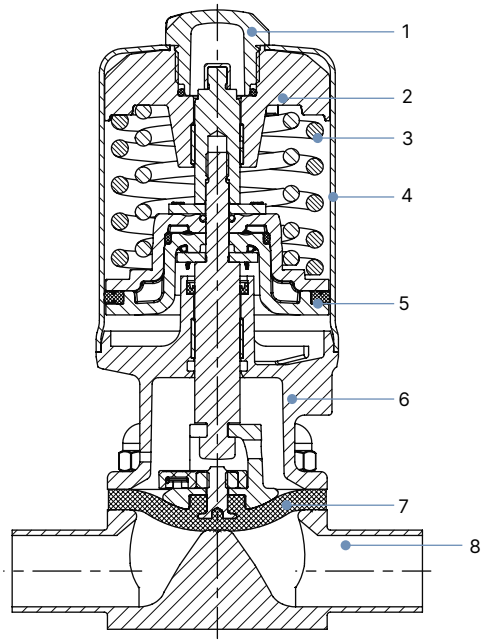
Bürkert resistApp – Chemical resistance chart

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

Note:
The exemplary representation may differ from the actual product.



No.	Element	Material
1	Transparent cap	Polysulfone PSU
2	Spring support	Stainless steel 1.4308
3	Spring	EN10270 - 2 FDSiCr
4	Actuator casing	Stainless steel 1.4404 (316L)
5	Piston seal	FKM
6	Actuator base (diaphragm socket)	Stainless steel 1.4308
7	Diaphragm	EPDM (AD), PTFE/EPDM (EA), Advanced PTFE/EPDM (EU), laminate of GYLON® and EPDM (ER)
8	Valve body	See "1. General technical data" on page 3

4.3. Example of available diaphragm 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)
- Laminate of GYLON® and EPDM (ER)

Further information can be found in our flyer "Diaphragm competence for hygienic applications" on our **website** ▶.

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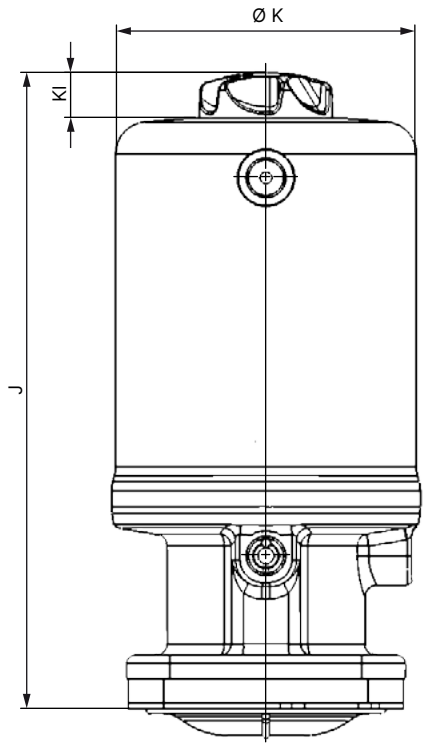
5. Dimensions

5.1. Actuator

INOX actuator

Note:
Dimensions in mm, unless otherwise stated



Diaphragm size	Actuator size	J	Ø K	Kl
8	32 (B)	65	36.4	9.1 [1)]
15	50 (D)	130	55	11
	70 (M)	139	75	11
20	70 (M)	148	75	11
25	70 (M)	155	75	11
	90 (N)	182	96	14
32	90 (N)	192	96	14
40	90 (N)	192	96	14
	130 (P)	244	137	14
50	130 (P)	250	137	14

1.) Dimension for Kl is maximum dimension – Control function B

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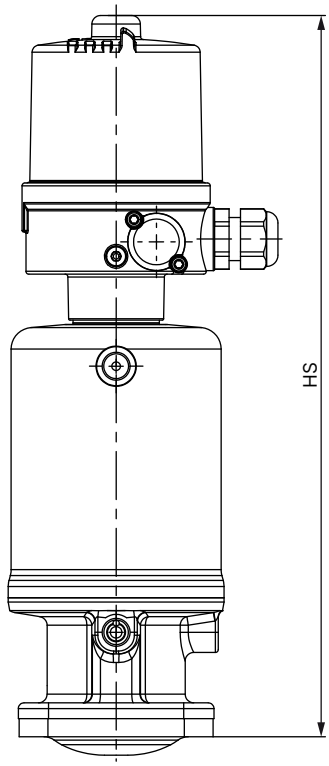
INOX actuator with control unit Type 8697

Note:
Dimensions in mm, unless otherwise stated



Diaphragm size	Actuator size	HS
15	50 (D)	236.9
	70 (M)	245.9
20	70 (M)	254.9
25	70 (M)	261.9
	90 (N)	288.9
32	90 (N)	298.9
40	90 (N)	298.9
	130 (P)	350.9
50	130 (P)	356.9

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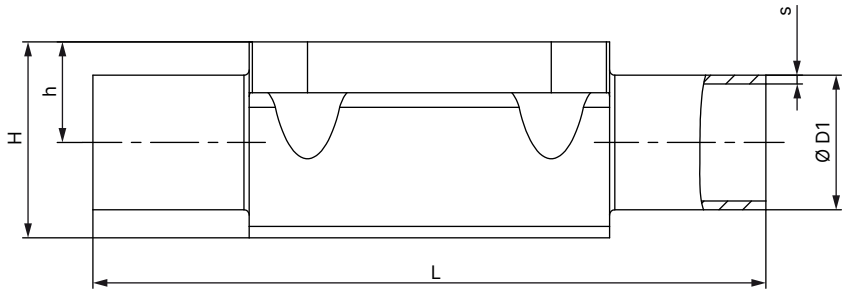
5.2. Forged steel valve body (VS) with welded connection

Note:

- Dimensions in mm, unless otherwise stated
- Further information on the draining angle can be found in the **operating instructions Type 2063 ▶**.



Diaphragm size	Port connection DN	Ø D1	s	L	h	H	Product key [1.)]
DIN EN ISO 1127 / ISO 4200 / DIN 11866 series B							
8	8	13.5	1.6	90	9.3	18.8	SA40
15	8	13.5	1.6	108	8.15	19.85	SA40
8	10	17.2	1.6	90	9.3	18.8	SA41
15	10	17.2	1.6	110	12.05	23.75	SA41
15	15	21.3	1.6	110	12.05	23.75	SA42
20	15	21.3	1.6	119	16	30.3	SA42
20	20	26.9	1.6	119	16	30.3	SA43
25	20	26.9	1.6	119	19	37	SA43
25	25	33.7	2.0	129	19	37	SA44
40	25	33.7	2.0	161	27.6	52.4	SA44
40	32	42.4	2.0	161	27.6	52.4	SA45
40	40	48.3	2.0	161	27.6	52.4	SA46
50	50	60.3	2.0	192	35.5	68.3	SA47
DIN 11850 series 2 / DIN 11866 series A / DIN EN 10357 series A							
8	10	13	1.5	90	9.3	18.8	SD40
15	10	13	1.5	110	8.15	19.85	SD40
15	15	19	1.5	110	12.05	23.75	SD42
20	20	23	1.5	119	16.0	30.3	SD43
25	25	29	1.5	129	19.0	37.0	SD44
40	32	35	1.5	161	27.6	52.4	SD45
40	40	41	1.5	161	27.6	52.4	SD46
50	50	53	1.5	192	35.5	68.3	SD47
ASME BPE / DIN 11866 series C							
8	¼"	6.35	0.89	78	5.7	15.2	SA90
8	⅜"	9.53	0.89	89	5.7	15.2	SA91
8	½"	12.7	1.65	89	9.3	18.8	SA92
15	½"	12.7	1.65	108	8.15	19.85	SA92
15	¾"	19.05	1.65	108	12.05	23.75	SA93
20	¾"	19.05	1.65	117	16.0	30.3	SA93
25	1"	25.4	1.65	127	19.0	37.0	SODF
40	1½"	38.1	1.65	159	27.6	52.4	SODH
50	2"	50.8	1.65	190	35.5	68.3	SODI
50	2½"	63.5	1.65	192	35.5	68.6	SODJ

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Diaphragm size	Port connection DN	Ø D1	s	L	h	H	Product key [1)]
BS 4825							
8	8	6.35	1.20	78	5.7	15.2	SODB
8	10	9.53	1.20	89	5.7	15.2	SODC
15	15	12.7	1.20	108	8.15	19.85	SODD
20	20	19.05	1.20	117	16.0	30.3	SODE
25	25	25.4	1.65	127	19.0	37.0	SODF
40	40	38.1	1.65	159	27.6	52.4	SODH
50	50	50.8	1.65	190	35.5	68.3	SODI
50	65	63.5	1.65	192	35.5	68.6	SODJ
SMS 3008							
25	25	25	1.2	129	19	37	SA60
40	40	38	1.2	161	27.6	52.4	SA62
50	50	51	1.2	192	35.5	68.3	SA63
DIN 11850 - 0							
8	6	8	1.0	90	5.7	15.2	SC41
8	8	10	1.0	90	5.7	15.2	SC42

1.) This information is part of the product key (see "9.3. Bürkert Product Enquiry Form" on page 23).

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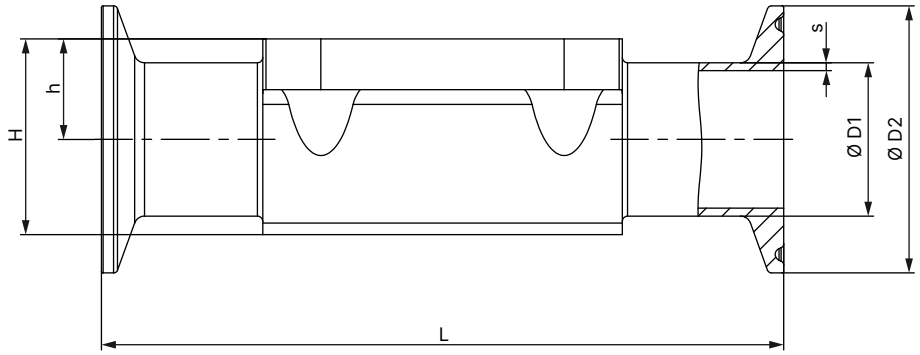
5.3. Forged steel valve body (VS) with clamp-connection

Note:

- Dimensions in mm, unless otherwise stated
- Further information on the draining angle can be found in the **operating instructions Type 2063 ▶**.



Diaphragm size	Port connection DN	Ø D1	s	Ø D2	L	h	H	Product key [1.)]	Variable code [1.)]
DIN 32676 series B (ISO pipe)									
15	15	21.3	1.6	50.5	167	12.05	23.75	TC52	–
20	20	26.9	1.6	50.5	114	16.0	30.3	TC43	–
25	25	33.7	2	50.5	129	19	37	TC44	–
40	40	48.3	2	64.0	161	27.6	52.4	TC46	–
50	50	60.3	2	77.5	190	35.5	68.3	TC47	–
DIN 32676 series A (DIN pipe)									
8	10	13	1.5	34.0	126	9.3	18.8	TD41	–
15	10	13	1.5	34.0	110	8.15	19.85	TD41	–
15	15	19	1.5	34.0	110	12.05	23.75	TD42	–
20	20	23	1.5	34.0	119	16	30.3	TD43	–
25	25	29	1.5	50.5	129	19	37	TD44	–
40	40	41	1.5	50.5	161	27.6	52.4	TD46	–
50	50	53	1.5	64.0	192	35.5	68.3	TD47	–
ASME BPE									
8	¼"	6.35	0.89	25.0	64.5	5.7	15.2	TG50	–
8	⅜"	9.53	0.89	25.0	89	5.7	15.2	TG01	AF34
8	½"	12.7	1.65	25.0	64	9.3	18.8	TG02	–
8	½"	12.7	1.65	25.0	89	9.3	18.8	TG02	AF34
15	½"	12.7	1.65	25.0	89	8.15	19.85	TG02	–
15	½"	12.7	1.65	25.0	108	8.15	19.85	TG02	AF34
15	¾"	19.05	1.65	25.0	89	12.05	23.75	TG03	–
20	¾"	19.05	1.65	25.0	102	16	30.3	TG03	–
20	¾"	19.05	1.65	25.0	117	16	30.3	TG03	AF34
25	1"	25.4	1.65	50.5	114	19	37	TG04	–
25	1"	25.4	1.65	50.5	127	19	37	TG04	AF34
40	1½"	38.1	1.65	50.5	140	27.6	52.4	TG05	–
40	1½"	38.1	1.65	50.5	159	27.6	52.4	TG05	AF34
50	2"	50.8	1.65	64.0	159	35.5	68.3	TG06	–
50	2"	50.8	1.65	64.0	190	35.5	68.3	TG06	AF34

1.) This information is part of the product key (see "9.3. Bürkert Product Enquiry Form" on page 23).

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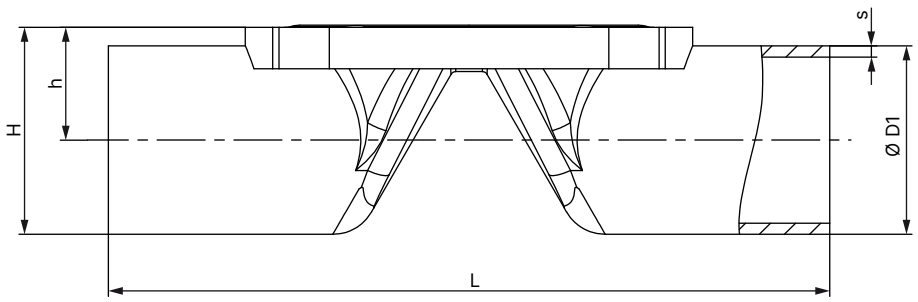
5.4. Tube valve body (VP) with welded connection

Note:

- Dimensions in mm, unless otherwise stated
- Further information on the draining angle can be found in the **operating instructions Type 2063** ▶.



Diaphragm size	Port connection DN	Ø D1	s	L	h	H	Product key[1.)]
DIN EN ISO 1127 / ISO 4200 / DIN 11866 series B							
8	8	13.5	1.6	90.0	9.85	16.6	SA40
8	10	17.2	1.6	90.0	11.70	20.3	SA41
15	15	21.3	1.6	110.0	14.35	25.0	SA42
20	20	26.9	1.6	119.0	17.15	30.45	SA43
25	25	33.7	2.0	129.0	20.55	37.4	SA44
32	32	42.4	2.0	148.0	25.10	46.3	SA45
40	40	48.3	2.0	161.0	29.35	53.5	SA46
50	50	60.3	2.0	192.0	35.35	65.50	SA47
DIN 11850 series 2 / DIN 11866 series A / DIN EN 10357 series A							
8	10	13	1.5	90	9.85	16.35	SD40
15	15	19	1.5	110	13.20	22.70	SD42
15	20	23	1.5	119	15.20	26.70	SD43
20	25	29	1.5	129	18.20	32.70	SD44
25	32	35	1.5	148	21.20	38.70	SD45
32	40	41	1.5	161	24.40	44.90	SD46
40	50	53	1.5	192	31.70	58.20	SD47
ASME BPE / DIN 11866 series C							
8	½"	12.7	1.65	90.0	9.45	21.95	SA92
15	¾"	19.05	1.65	117.0	13.23	25.73	SA93
20	1"	25.4	1.65	127.0	16.40	41.65	SODF
32	1½"	38.1	1.65	159.0	22.95	48.20	SODH
40	2"	50.8	1.65	190	30.60	62.60	SODI

1.) This information is part of the product key (see "9.3. Bürkert Product Enquiry Form" on page 23).

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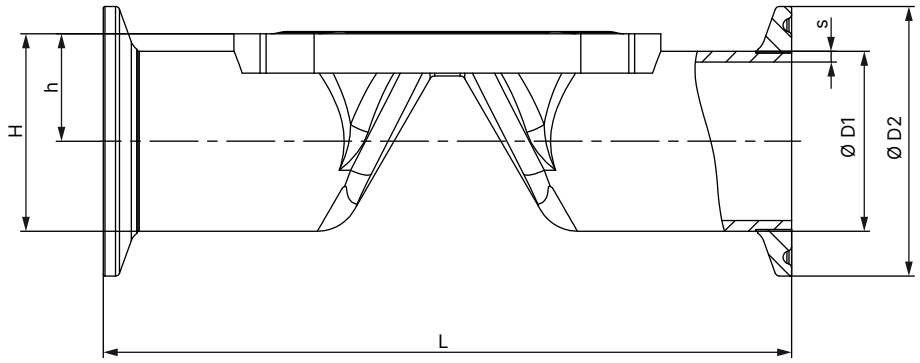
5.5. Tube valve body (VP) with clamp connection

Note:

- Dimensions in mm, unless otherwise stated
- Further information on the draining angle can be found in the **operating instructions Type 2063 ▶**.



Diaphragm size	Port connection DN	Ø D1	s	Ø D2	L	h	H	Product key [1.)]
DIN 32676 series B (ISO pipe)								
8	8	13.5	1.6	25.0	89	9.85	22.35	TC40
8	10	17.2	1.6	25.0	89	11.70	24.20	TC53
15	15	21.3	1.6	50.5	110	14.35	39.60	TC52
20	20	26.9	1.6	50.5	119	17.15	42.40	TC43
25	25	33.7	2.0	50.5	129	20.55	45.80	TC44
32	32	42.4	2.0	64.0	148	25.10	57.10	TC55
40	40	48.3	2.0	64.0	161	29.35	61.35	TC46
50	50	60.3	2.0	77.5	192	35.35	74.10	TC47
DIN 32676 series A (DIN pipe)								
8	10	13.0	1.5	34.0	89	9.85	26.85	TD41
15	15	19.0	1.5	34.0	110	13.2	30.20	TD42
15	20	23.0	1.5	34.0	119	15.20	32.20	TD43
20	25	29.0	1.5	50.5	129	18.20	43.45	TD44
25	32	35.0	1.5	50.5	148	21.20	46.45	TD45
32	40	41.0	1.5	50.5	161	24.40	49.65	TD46
40	50	53.0	1.5	64.0	192	31.70	63.70	TD47
ASME BPE								
8	½"	12.7	1.65	25.0	89	9.45	21.95	TG02
15	¾"	19.05	1.65	25.0	102	13.20	25.73	TG03
20	1"	25.4	1.65	50.5	114	16.40	41.65	TG04
32	1½"	38.10	1.65	50.5	140	22.95	48.20	TG05
40	2"	50.80	1.65	64.0	159	30.60	62.60	TG06

1.) This information is part of the product key (see "9.3. Bürkert Product Enquiry Form" on page 23).

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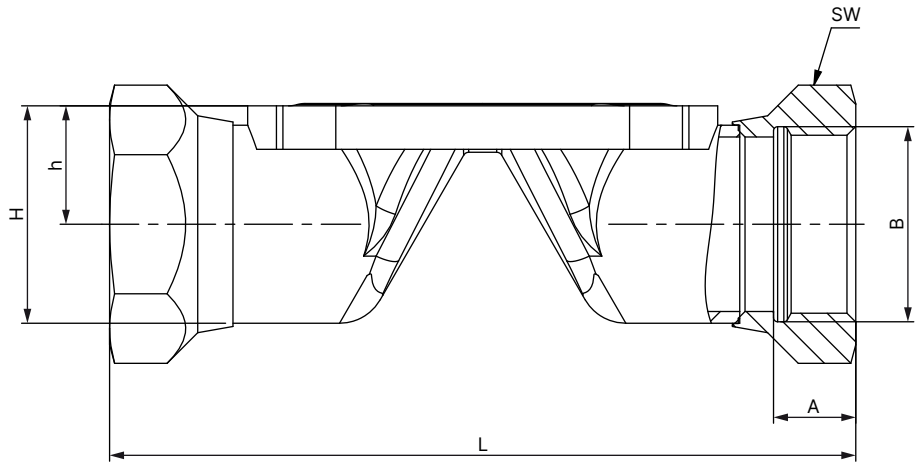
5.6. Tube valve body (VP) with threaded connection

Note:

- Dimensions in mm, unless otherwise stated
- Further information on the draining angle can be found in the **operating instructions Type 2063 ▶**.



Diaphragm size	L	A	B	h	H	Spanner width of threaded ports	Product key [1.)]
08	85	9	G ¼	11.70	20.3	17	GM82
15	102	14	G ½	14.35	25.0	27	GM84
20	118	12	G ¾	17.15	30.45	32	GM85
25	127	14	G 1	20.55	37.4	41	GM86
32	146	16	G 1¼	25.10	46.3	50	GM87
40	159	18	G 1½	29.35	53.5	60	GM88
50	191	20	G 2	35.35	65.50	70	GM89
Diaphragm size	**L**	**A**	B	**h**	**H**	**Spanner width of threaded ports**	**Product key [1.)]**
08	85	9.7	Rc ¼	11.70	20.3	17	RC82
15	102	13.2	Rc ½	14.35	25.0	27	RC84
20	118	14.5	Rc ¾	17.15	30.45	32	RC85
25	127	16.8	Rc 1	20.55	37.4	41	RC86
32	146	19.1	Rc 1¼	25.10	46.3	50	RC87
40	159	19.1	Rc 1½	29.35	53.5	60	RC88
50	191	23.4	Rc 2	35.35	65.50	70	RC89
Diaphragm size	**L**	**A**	B	**h**	**H**	**Spanner width of threaded ports**	**Product key [1.)]**
08	85	10	NPT ¼	11.70	20.3	17	NM82
15	102	13.7	NPT ½	14.35	25.0	27	NM84
20	118	14	NPT ¾	17.15	30.45	32	NM85
25	127	16.8	NPT 1	20.55	37.4	41	NM86
32	146	17.3	NPT 1¼	25.10	46.3	50	NM87
40	159	17.3	NPT 1½	29.35	53.5	60	NM88
50	191	17.6	NPT 2	35.35	65.50	70	NM89

1.) This information is part of the product key (see "9.3. Bürkert Product Enquiry Form" on page 23).

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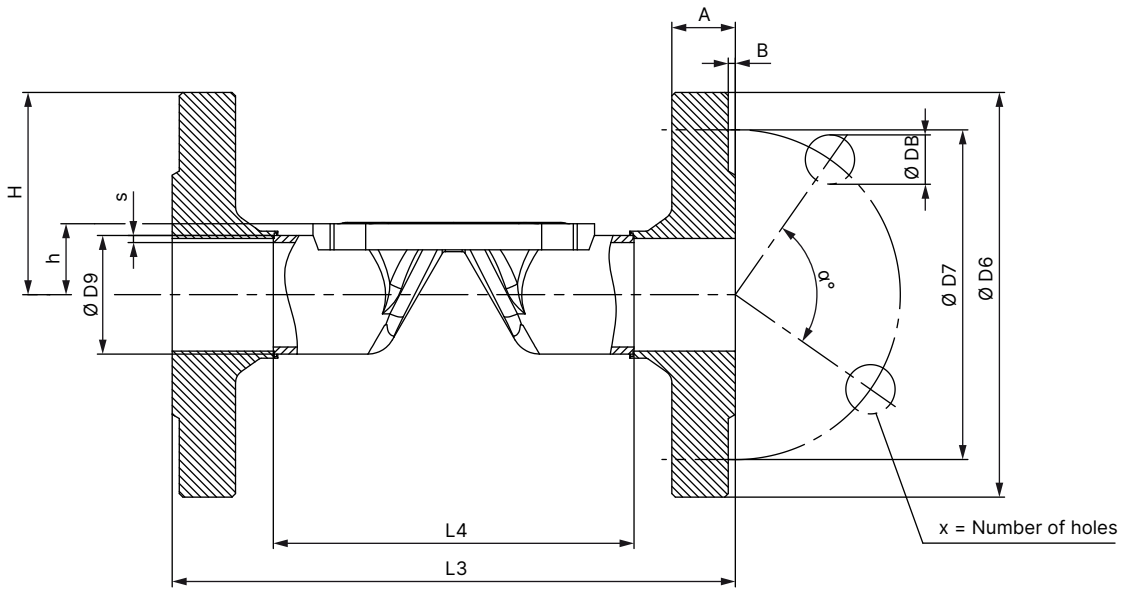
5.7. Tube valve body (VP) with flange connection

Note:

- Dimensions in mm, unless otherwise stated
- Further information on the draining angle can be found in the **operating instructions Type 2063 ▶**.



Diaphragm size	L4	L3	s	Ø D9	Ø D6	Ø D7	a°	Ø DB	A	B	X	Product key [1]
DIN EN 1092 - 1												
15	76.5	130	1.6	21.3	95	65	90	14	16	2	4	FD22
20	92.5	150	1.6	26.9	105	75	90	14	18	2	4	FD23
25	102.5	160	2.0	33.7	115	85	90	14	18	2	4	FD24
32	122.5	180	2.0	42.4	140	100	90	18	18	2	4	FD25
40	136.5	200	2.0	48.3	150	110	90	18	18	3	4	FD26
50	160.5	230	2.0	60.3	165	125	90	18	20	3	4	FD27
ANSI B16.5												
15	67.0	130	1.6	21.3	89	60.5	90	15.7	11.2	1.6	4	FA02
20	83.0	150	1.6	26.9	99	69.9	90	15.7	12.7	1.6	4	FA03
25	106.0	160	2.0	33.7	108	79.2	90	15.7	14.2	1.6	4	FA04
40	128.0	200	2.0	48.3	127	98.6	90	15.7	17.5	1.6	4	FA06
50	151.0	230	2.0	60.3	152	120.7	90	19.1	19.1	1.6	4	FA07
JIS 10K												
15	89	130	1.6	21.3	95	70	90	15	12	1	4	FJ01
20	103	150	1.6	26.9	100	75	90	15	14	1	4	FJ02
25	116	160	2.0	33.7	125	90	90	19	14	1	4	FJ03
40	147	200	2.0	48.3	140	105	90	19	16	2	4	FJ05
50	175	230	2.0	60.3	155	120	90	19	16	2	4	FJ06

1.) This information is part of the product key (see "9.3. Bürkert Product Enquiry Form" on page 23).

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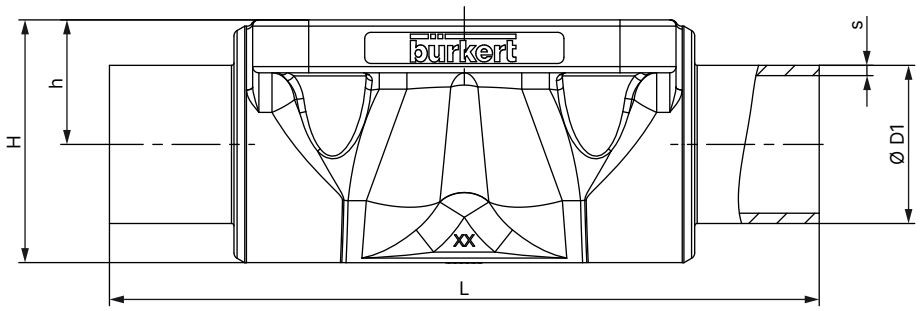
5.8. Cast valve body (VG) with welded connection

Note:

- Dimensions in mm, unless otherwise stated
- Further information on the draining angle can be found in the **operating instructions Type 2063 ▶**.



Diaphragm size	Port connection DN	Ø D1	s	L	h	H	Product key [1.)]
DIN EN ISO 1127 / ISO 4200 / DIN 11866 series B							
8	8	13.5	1.6	90	9.6	18.5	SA40
8	10	17.2	1.6	90	9.6	18.6	SA41
15	15	21.3	1.6	110	13.5	25.0	SA42
20	15	21.3	1.6	119	18.0	32.9	SA42
20	20	26.9	1.6	119	18.0	32.7	SA43
25	25	33.7	2.0	129	20.0	39.0	SA44
40	32	42.4	2.0	161	28.6	55.0	SA45
40	40	48.3	2.0	161	28.6	55.0	SA46
50	50	60.3	2.0	192	35.5	68.0	SA47
DIN 11850 series 2 / DIN 11866 series A / DIN EN 10357 series A							
8	10	13	1.5	90	9.6	18.6	SD40
15	15	19	1.5	110	13.5	25.0	SD42
20	20	23	1.5	119	18.0	32.8	SD43
25	25	29	1.5	129	20.0	39.0	SD44
40	40	41	1.5	161	28.6	55.0	SD46
50	50	53	1.5	192	35.5	68.0	SD47
ASME BPE / DIN 11866 series C							
8	¼"	6.35	0.89	64.5	9.6	18.6	SA90
8	⅜"	9.53	0.89	89	9.6	18.6	SA91
8	½"	12.7	1.65	89	9.6	18.6	SA92
15	¾"	19.05	1.65	102	13.5	25.0	SA93
20	¾"	19.05	1.65	119	18.0	32.8	SA93
20	1"	25.4	1.65	119	18.0	32.7	SODF
25	1"	25.4	1.65	114	20.0	39.0	SODF
40	1½"	38.1	1.65	140	28.6	55.0	SODH
50	2"	50.8	1.65	159	35.5	68.0	SODI
50	2½"	63.5	1.65	192	35.5	68.0	SODJ
BS 4825							
8	8	6.35	1.20	64.5	9.6	18.6	SODB
8	10	9.53	1.20	89	9.6	18.6	SODC
8	15	12.7	1.20	89	9.6	18.6	SODD
15	20	19.05	1.20	102	14.0	25.5	SODE
20	25	25.4	1.65	119	18.0	32.8	SODF
25	25	25.4	1.65	114	20.0	39.0	SODF
40	40	38.1	1.65	140	28.6	55.0	SODH
50	50	50.8	1.65	159	35.5	68.0	SODI
50	65	63.5	1.65	192	35.5	68.0	SODJ

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Diaphragm size	Port connection DN	Ø D1	s	L	h	H	Product key [1.)]
SMS 3008							
20	25	25	1.2	119	18.0	32.8	SA60
25	25	25	1.2	129	20.0	39.0	SA60
40	40	38	1.2	161	28.6	55.0	SA62
50	50	51	1.2	192	35.5	68.0	SA63
DIN 11850 - 0							
8	4	6	1.0	90	9.6	18.6	SC40
8	6	8	1.0	90	9.6	18.6	SC41
8	8	10	1.0	90	9.6	18.6	SC42
15	15	18	1.5	110	13.5	25.0	SC43
20	20	22	1.5	119	18.0	32.8	SC44
25	25	28	1.5	129	20.0	39.0	SC45
25	32	34	1.5	129	20.0	39.0	SC46
40	40	40	1.5	161	28.6	56.0	SC47
50	50	52	1.5	192	35.5	68.0	SC48

1.) This information is part of the product key (see "9.3. Bürkert Product Enquiry Form" on page 23).

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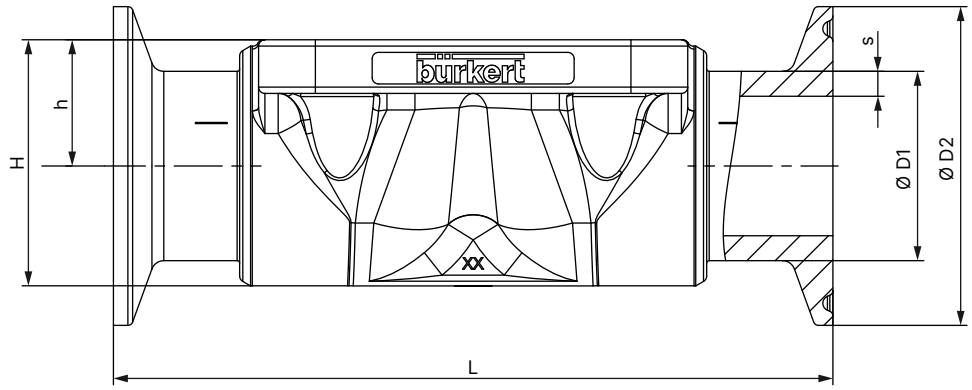
5.9. Cast valve body (VG) with clamp connection

Note:

- Dimensions in mm, unless otherwise stated
- Further information on the draining angle can be found in the **operating instructions Type 2063 ▶**.



Diaphragm size	Port connection DN	Ø D1	s	Ø D2	L	h	H	Product key [1.]
DIN 32676 series B (ISO pipe)								
25	25	33.7	2	50.5	129	20.0	39.0	TC44
40	40	48.3	2	64.0	161	28.6	55.0	TC46
50	50	60.3	2	77.5	192	35.5	68.0	TC47
DIN 32676 series A (DIN pipe)								
15	15	19	1.5	34.0	110	13.5	25.0	TD42
20	20	23	1.5	34.0	119	18.0	32.8	TD43
25	25	29	1.5	50.5	129	20.0	39.0	TD44
40	40	41	1.5	50.5	161	28.6	55.0	TD46
50	50	53	1.65	64.0	192	35.5	68.0	TD47
ASME BPE								
8	⅜"	9.53	0.89	25.0	89	9.6	18.6	TG01
8	½"	12.7	1.65	25.0	89	9.6	18.6	TG02
15	¾"	19.05	1.65	25.0	102	13.5	23.0	TG03
20	¾"	19.05	1.65	25.0	117	18.0	25.0	TG03
25	1"	25.4	1.65	50.5	114	18.0	40.0	TG04
40	1½"	38.1	1.65	50.5	140	28.6	55.0	TG05
50	2"	50.8	1.65	64.0	159	35.5	68.0	TG06
50	2½"	63.5	1.65	77.5	190	35.5	68.0	TG07
BS 4825: Clamp BS 4825 - 3 / pipe BS 4825 - 1								
8	15	12.7	1.2	25	89	9.6	18.9	TH42
15	20	19.05	1.2	25	102	13.5	25.0	TH43
25	25	25.4	1.65	50.5	114	20.0	39.0	TG04
40	40	38.1	1.65	50.5	140	28.6	55.0	TG05
50	50	50.8	1.65	64.0	159	35.5	68.0	TG06
50	65	63.5	1.65	77.5	190	35.5	68.0	TG07
Clamp 34.0 similar DIN 32676 series B (ISO pipe)								
15	15	21.3	1.6	34	110	13.5	25.0	TC42

1.) This information is part of the product key (see "9.3. Bürkert Product Enquiry Form" on page 23).

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6. Performance specifications

6.1. Flow characteristics

Note:

- The K_V values may vary slightly with different actuator sizes and diaphragm materials.
- More K_V values are available on request.
- Flow rate: K_V value water (m^3/h) for elastomer diaphragms
- Measurement at + 20 °C, 4 bar at valve inlet and 3 bar at valve outlet

Forged steel valve body (VS)

Diaphragm size	Port connection		K_V value					
			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	DIN 11850 - 0	BS4825	SMS3008
	[mm]	[inch]	[m³/h]	[m³/h]	[m³/h]	[m³/h]	[m³/h]	[m³/h]
8	8	¼	–	1.1	–	–	–	–
15	10	⅜	5.5	3.5	–	–	–	–
15	15	½	6.5	6.5	3.1	–	3.7	–
15	20	¾	–	–	6.5	–	–	–
20	20	¾	12.5	12.4	8.4	–	8.9	–
25	25	1	18	20	15.5	–	15.5	16
40	32	1¼	–	34	–	–	–	–
40	40	1½	41	40	37	–	37	38
50	50	2	66	66	66	–	66	66
50	65	2½	–	–	66	–	66	66

Tube valve body (VP)

Diaphragm size	Port connection		K_V value [m³/h]		
			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
	[mm]	[inch]	[m³/h]	[m³/h]	[m³/h]
8	8	¼	1.9	–	–
8	10	⅜	1.7	1.9	–
8	15	½	–	–	1.8
15	15	½	7.2	7.4	–
15	20	¾	–	7.4	7.1
20	20	¾	13.5	–	–
20	25	1	–	14.9	12.8
25	32	1¼	–	22.3	–
25	25	1	20.8	–	–
32	32	1¼	36	–	–
32	40	1½	–	34.8	31
40	40	1½	47.9	–	–
40	50	2	–	46.2	43
50	50	2	69.7	–	–

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Cast valve body (VG)

Diaphragm size	Port connection		K_V value
	[mm]	[inch]	[m³/h]
8	8	¼	0.95
15	15	½	5.6
20	20	¾	10.7
25	25	1	14.6
40	40	1½	35
50	50	2	47

6.2. Medium pressure

Information for control function A

Note:

- For low operating pressures, optional variants with reduced spring force (EC04) are recommended.
- Pressure data [bar]: Overpressure to atmospheric pressure. Static: When closed, the valve is pressurised on one side with the maximum operating pressure.
- Information for control function B and I is available on request.

Diaphragm size	Actuator size Ø	Pilot pressure	Maximum static operating pressure for seal materials	
			EPDM, FKM	PTFE/EPDM, advanced PTFE/EPDM, laminate of GYLON® and EPDM
	[mm]	[bar]	[bar]	[bar]
8	32 (B)	5.5...10.5	10	10
15	50 (D)	5.0...10.5	10	–
	70 (M)	5.0...10.5	10	10
20	70 (M)	5.0...10.5	10	10
25	70 (M)	5.5...10.5	10	6
	90 (N)	5.0...10.5	10	10
32	90 (N)	5.5...10.5	10	10
40	90 (N)	5.5...10.5	7.5	6 [1.)]
	130 (P)	5.0...7.5	10	10
50	130 (P)	5.0...7.5	10	10

1.) Laminate of GYLON® and EPDM (ER diaphragm) variant is not available.

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7. Product accessories

Note:
Further position feedbacks can be found on our **website ▸**

Electric position feedback indicator	
Type 8697 ▸ Actuator size Ø 50...130 mm	
	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 register the position of the valve. **Features** • Compact design • LED position indicator • Mechanical or inductive limit switches 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 • High level of signal reliability thanks to self-adjusting limit switches • Minimised space requirement in the plant piping for more flexibility in plant design

8. Networking and combination with other Bürkert products

Note:
The **on/off valve system** with **stainless steel actuator Type 8801-DV** consists of a **diaphragm valve Type 2063** and an **electrical position feedback Type 8697**.

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

Example:

Diaphragm valve	**Position feedback**	**Valve system on/off**
Type 2063	**Type 8697 ▸** Pneumatic control for decentralised automation of ELEMENT process valves	**Type 8801-DV ▸** ELEMENT on/off valve system with decentralised automation **Type 2063 + Type 8697**

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9. Ordering information

9.1. Bürkert eShop

Bürkert eShop – Easy ordering and quick delivery

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

Order online now

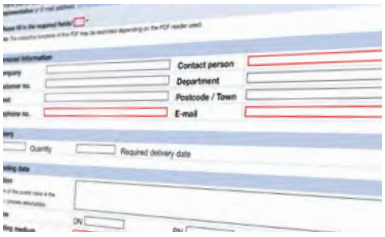
9.2. Bürkert product filter

Bürkert product filter – Find the right product quickly

Want to select products conveniently 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 – Create a quick and compact enquiry

Want to make a specific product enquiry based on your technical requirements? Then use our Product Enquiry Form. 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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