



2/2-way diaphragm valve with pneumatic stainless steel actuator (Type ELEMENT) for decentralised automation

- Valve body and diaphragm are available in various materials and variants
- Wetted surfaces from $Ra \leq 0.38 \mu m \dots \leq 1.6 \mu m$ (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 SV02 Diaphragms	▶
	Type 2034 Multifunction block solutions	▶
	Type 8691 Control head for decentralised automation of ELEMENT process valves	▶
	Type 8692 Digital electro-pneumatic positioner for integrated mounting on process control valves	▶
	Type 8695 Control head for decentralised automation of ELEMENT process valves	▶
	Type 8696 Digital electropneumatic positioner for integrated mounting on process control valves	▶
	Type 8098 FLOWave SAW flowmeter	▶

Type description

The externally controlled diaphragm valve Type 2103 consists of a pneumatically operated piston actuator, a diaphragm and a 2-way valve body. The proven and robust actuator with stainless steel 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 with a large stainless steel housing and gap-free seals. The integration of automation units Type ELEMENT is possible in all configuration levels (can be retrofitted); a fieldbus interface can also be integrated. An explosion-proof ATEX/IECEx device variant is available.

It is a compact, smooth-surfaced and highly integrated system consisting of a valve and an automation unit with integrated pilot air ducts (no intake of ambient air). The add-on body is optionally available in plastic or stainless steel (can be rotated 360°). The valve offers the degrees of protection IP65/67 and NEMA Type 4X and displays high chemical resistance.

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1. General technical data

Product properties	
Dimensions	Further information can be found in chapter "4. Dimensions" on page 9.
Material	
Forged steel valve body (VS) ¹⁾	Forged material 1.4435 according to BN2 DIN EN 10222 - 5, F316L according to ASTM A182 / A182M and 316 I according 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⁾	Investment cast material 1.4435 / 316 I
Plastic valve body (PW, PV, PP, PD) ¹⁾	PVC-C, PVC-U, PP, PVDF
Diaphragm	EPDM (AD) ¹⁾ , PTFE/EPDM (EA) ¹⁾ , Advanced PTFE/EPDM (EU) ¹⁾ , laminate of GYLON® and EPDM (ER) ¹⁾
Actuator	DN 08...65 PPS DN 65...100 stainless steel 1.4308
Actuator cover	DN 08...65 stainless steel 1.4561 (316Ti) DN 65...100 stainless steel 1.4308
Diaphragm size	8...100, for plastic body 15...100
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) Internally glass bead blasted: Ra ≤ 1.6 µm (NO05) ¹⁾ (externally glass bead blasted: Ra ≤ 1.6 µm (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 bar 7 bar for actuator size 130, 225 See "5.2. Medium pressure" on page 26
Pilot air port	Push-in connector for outer diameter, Ø 6 mm or 1/4" (standard), thread G 1/8"
Medium data	
Process 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)
Laminate of GYLON® and EPDM (ER) ¹⁾	- 5...+ 130 °C (steam sterilisation + 140 °C for 60 min)
Plastic body	See "3.2. Pressure temperature diagram for plastic body" on page 6
Control medium	Neutral gases, air

Process/Port connection & communication

Nominal diameter (port connection) DN 06...DN 100 (1/8"...4")

Port connection ^{2.)}

For stainless steel body ^{3.)}

Welded connection ^{2.)} DIN EN ISO 1127 / ISO 4200 / DIN 11866 series B
 DIN 11850 - 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

For plastic body

Spigot connection DN 15...DN 50
 True union DN 15...DN 50
 Loose flange DN 15...DN 65
 Fixed flange DN 80...DN 100

Environment and installation

Installation position See **operating manual Type 2103** ▶

Ambient temperature -10...+60 °C ^{5.)}, autoclavable

- 1.) This information is part of the product key (see "8.3. Bürkert Product Enquiry Form" on page 34).
- 2.) Further variants are available on request.
- 3.) The tube valve body (VP) is also available with flange and threaded connection.
- 4.) With plastic housings, a temperature limitation due to housing material is possible.
- 5.) For standard variant, variants with higher temperatures possible

2. Approvals and conformities

2.1. General notes

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



2.2. Conformity

In accordance with the Declaration of Conformity, the product is compliant with the EU Directives.



2.3. Standards

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

2.4. Explosion protection

Approval	Description																
 	<p>Optional: Explosion protection (valid for the variable code PX51...DN 50) As a category 2 device suitable for zone 1/21 and zone 2/22.</p> <p>ATEX: EPS 18 ATEX 2 008 X II 2G Ex h IIC T4...T2 Gb II 2D Ex h IIC T135 °C...T300 °C Db</p> <p>IECEx: IECEx EPS 18.0007X Ex h IIC T4...T2 Gb Ex h IIC T135 °C...T300 °C Db</p> <table border="1"> <thead> <tr> <th>Temperature class</th> <th>T2</th> <th>T3</th> <th>T4</th> </tr> </thead> <tbody> <tr> <td>Permissible surface temperature</td> <td>+ 300 °C</td> <td>+ 200 °C</td> <td>+ 135 °C</td> </tr> <tr> <td>Ambient temperature</td> <td>- 40...+ 130 °C</td> <td>- 40...+ 130 °C</td> <td>- 40...+ 100 °C</td> </tr> <tr> <td>Maximum medium temperature</td> <td>+ 285 °C</td> <td>+ 185 °C</td> <td>+ 125 °C</td> </tr> </tbody> </table>	Temperature class	T2	T3	T4	Permissible surface temperature	+ 300 °C	+ 200 °C	+ 135 °C	Ambient temperature	- 40...+ 130 °C	- 40...+ 130 °C	- 40...+ 100 °C	Maximum medium temperature	+ 285 °C	+ 185 °C	+ 125 °C
Temperature class	T2	T3	T4														
Permissible surface temperature	+ 300 °C	+ 200 °C	+ 135 °C														
Ambient temperature	- 40...+ 130 °C	- 40...+ 130 °C	- 40...+ 100 °C														
Maximum medium temperature	+ 285 °C	+ 185 °C	+ 125 °C														

2.5. Foods and beverages/Hygiene

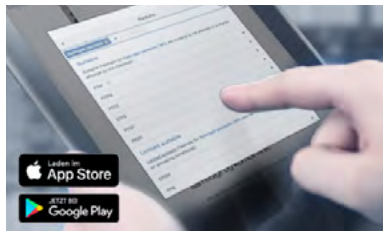
Conformity	Description
	<p>3-A Sanitary Standards Inc. (valid for the variable code PE05) The products comply with 3-A Sanitary Standards Inc (3-A SSI) as per certificate.</p>
FDA	<p>FDA – Code of Federal Regulations The diaphragms made of EPDM (AD), PTFE/EPDM (EA), Advanced PTFE/EPDM (EU) and laminate of GYLON® and EPDM (ER) comply with the Code of Federal Regulations published by the FDA (Food and Drug Administration, USA).</p>
USP	<p>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.</p>
	<p>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).</p>

2.6. Others

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

3. Materials

3.1. Bürkert resistApp



Bürkert resistApp – Chemical resistance chart

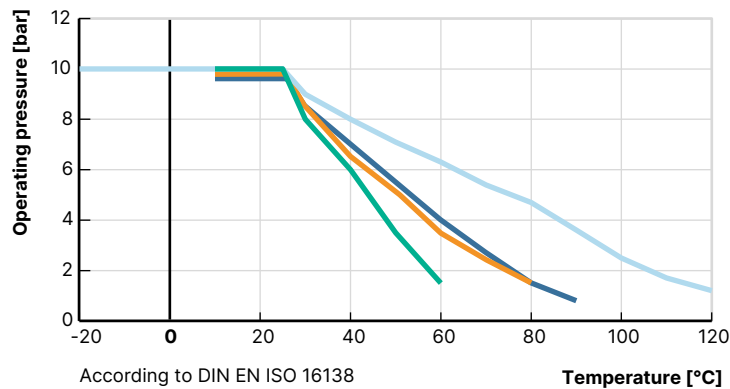
You want to ensure the reliability and durability of the materials in your individual application case? Verify your combination of media and materials on our website or in our resistApp.

[Start chemical resistance check](#)

3.2. Pressure temperature diagram for plastic body

Note:

This information is important for material selection. Observe the permissible operating pressure depending on the medium temperature.

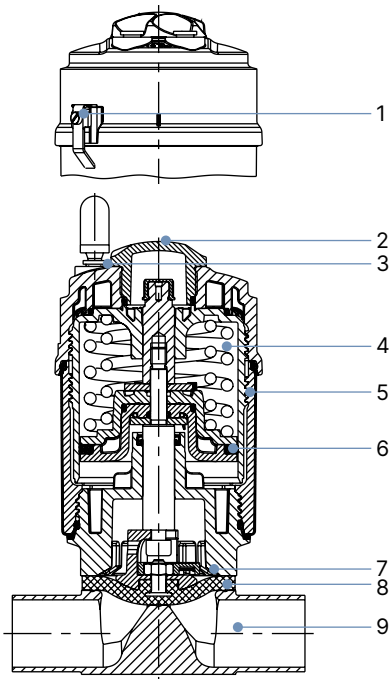


- PVC-U
- PVC-C
- PP
- PVDF

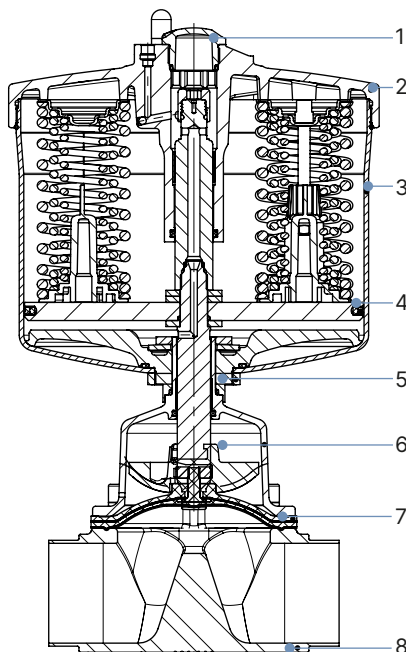
3.3. Material specifications

Note:

The exemplary representation may differ from the actual product.



No.	Element	Material
1	Ground terminal	Stainless steel 1.4301/1.4305 (only for ATEX/IECEx version)
2	Transparent cap	Polysulfone PSU
3	Pilot air ports	Push-in connector PP (standard), Thread G 1/8" stainless steel 1.4305
4	Actuator	Polyphenylene sulphide PPS
5	Cover	Stainless steel 1.4561 (316Ti)
6	Piston seal	FKM
7	Interface	Polyphenylene sulphide PPS (standard) Stainless steel 1.4308 (360° rotatable on request)
8	Diaphragm	EPDM (AD), PTFE/EPDM (EA), Advanced PTFE/EPDM (EU), laminate of GYLON® and EPDM (ER)
9	Valve body	See "1. General technical data" on page 3.



No.	Element	Material
1	Transparent cap	Polysulfon PSU
2	Actuator cover	Stainless steel 1.4308
3	Liner	Stainless steel 1.4404
4	Piston seal	FKM
5	Nut	Stainless steel 1.4301
6	Diaphragm socket	Stainless steel CF3M
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

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3.4. 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)
- Laminate of GYLON® and EPDM (ER)

For further information please refer to our flyer “Diaphragm competence for hygienic applications” on our [website](#) ▶.

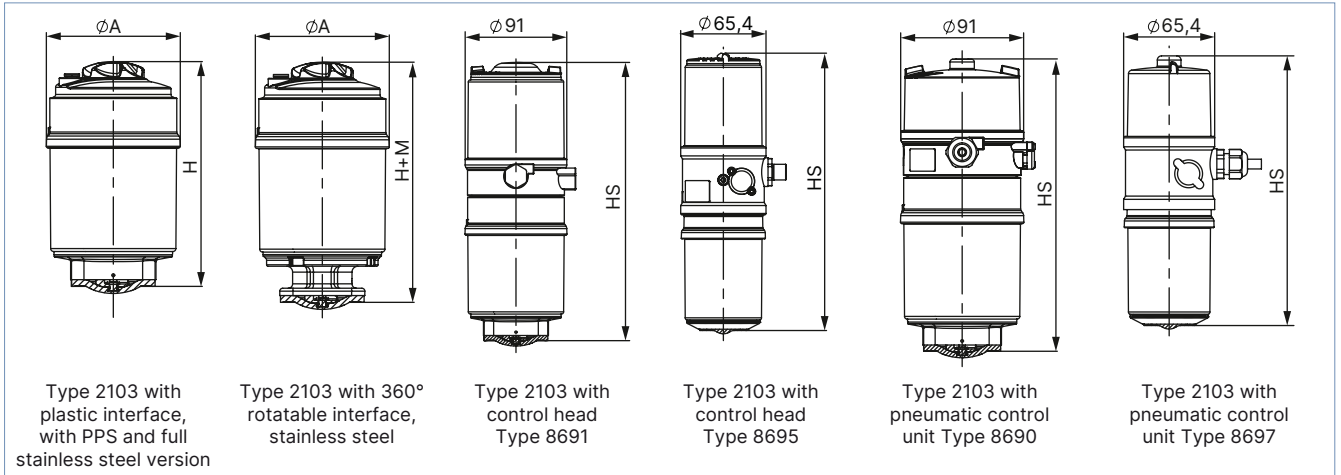
4. Dimensions

4.1. Actuator

ELEMENT actuator

Note:

Dimensions in mm, unless otherwise stated



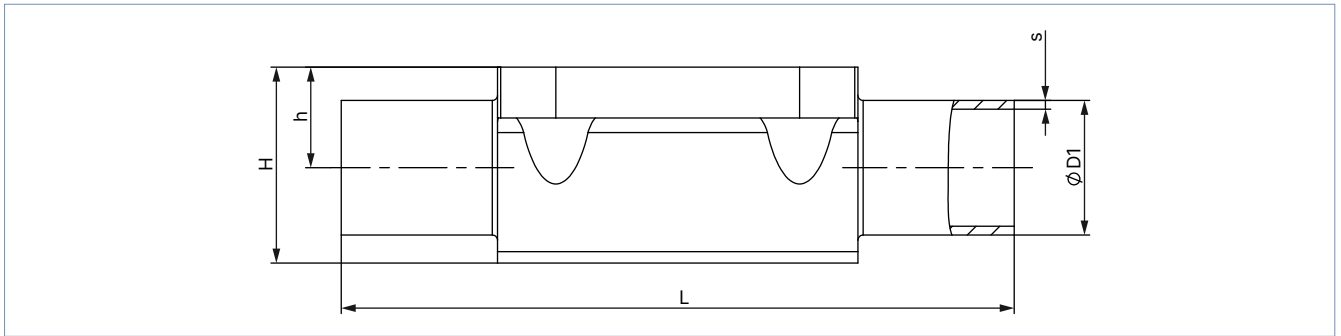
Diaphragm size	Actuator size \varnothing	$\varnothing A$	H	HS with		H+M
				8691 / 8695	8690 / 8697	
8	50 (D)	65	119	207	194	141
15	50 (D)	65	132	220	206	146
	70 (M)	–	–	242	209	–
20	70 (M)	92	153	248	215	165
25	70 (M)	92	154	248	215	171
	90 (N)	120	187	282	249	204
32	90 (N)	120	202	297	264	215
40	90 (N)	120	206	300	268	221
	130 (P)	159	259	353	320	273
50	130 (P)	159	275	369	336	281
65	130 (P)	–	–	–	–	285
	225 (L)	245	–	427	395	330
80	225 (L)	245	–	433	401	336
100	225 (L)	245	–	429	397	332

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4.2. 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 “Additional manual Type 2xxx 3xxx” on our website (see **operating instructions Type 2103** ▶).



Diaphragm size	Port connection DN	ØD1	s	L	h	H	Product key ¹⁾
DIN EN ISO 1127 / ISO 4200 / DIN 11866 series B							
8.0	8	13.5	1.6	90	9.3	18.8	SA40
15.0	8	13.5	1.6	108	8.2	19.9	SA40
8.0	10	17.2	1.6	90	9.3	18.8	SA41
15.0	10	17.2	1.6	110	12.1	23.8	SA41
15.0	15	21.3	1.6	110	12.1	23.8	SA42
20.0	15	21.3	1.6	119	16.0	30.3	SA42
20.0	20	26.9	1.6	119	16.0	30.3	SA43
25.0	20	26.9	1.6	119	19.0	37.0	SA43
25.0	25	33.7	2	129	19.0	37.0	SA44
40.0	25	33.7	2	161	27.6	52.4	SA44
40.0	32	42.4	2	161	27.6	52.4	SA45
40	40	48.3	2	161	27.6	52.4	SA46
50	50	60.3	2	192	35.5	68.3	SA47
80	65	76.1	2	250	51.0	98.1	SA48
80	80	88.9	2.3	250	51.0	98.1	SA49
100 ²⁾	100	114.3	2.3	295	63.5	127.0	SA39
DIN 11850 - 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	8.2	19.9	SD40
15	15	19	1.5	110	12.1	23.8	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
80	65	70	2	250	51.0	98.1	SD48
80	80	85	2	250	51.0	98.1	SD49
100 ²⁾	100	104	2	295	63.5	127.0	SD50

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Diaphragm size	Port connection DN	ØD1	s	L	h	H	Product key ¹⁾
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	8.2	19.9	SA92
15	¾"	19.05	1.65	108	12.1	23.8	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
80	2½"	63.5	1.65	250	51.0	98.1	SODJ
80	3"	76.2	1.65	250	51.0	98.1	SODK
100 ²⁾	4"	101.6	2.11	295	63.5	127.0	SODL
BS 4825							
8	8	6.35	1.2	78	5.7	15.2	SODB
8	10	9.53	1.2	89	5.7	15.2	SODC
15	15	12.7	1.2	108	8.2	19.9	SODD
20	20	19.05	1.2	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
80	80	63.5	1.65	250	51.0	98.1	SODJ
80	80	76.2	1.65	250	51.0	98.1	SODK
SMS 3008							
25	25	25	1.2	129	19.0	37.0	SA60
40	40	38	1.2	161	27.6	52.4	SA62
50	50	51	1.2	192	35.5	68.3	SA63
100 ²⁾	100	101.6	2	295	63.5	127.0	SA66
DIN 11850 - 0							
8	6	8	1	90	5.7	15.2	SC41
8	8	10	1	90	5.7	15.2	SC42

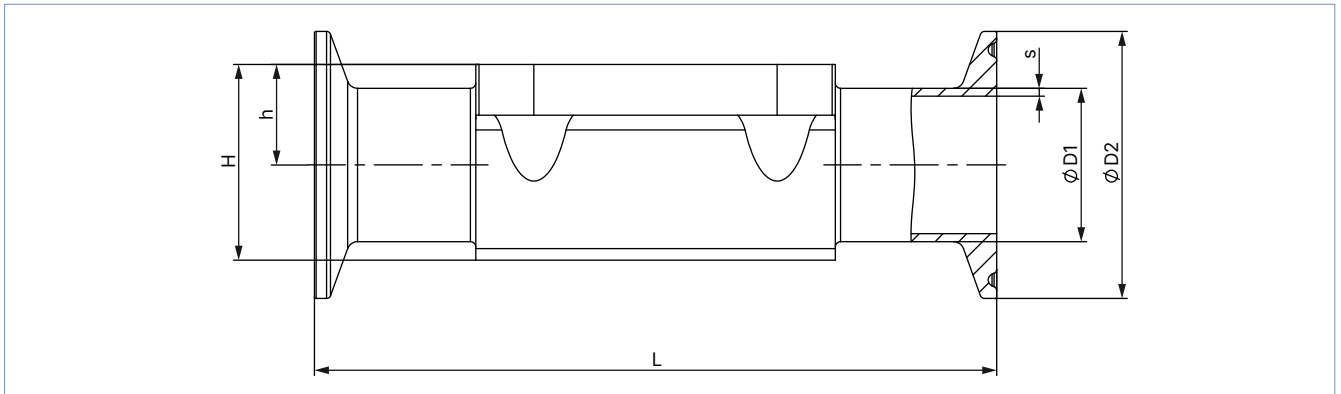
1.) This information is part of the product key (see "8.3. Bürkert Product Enquiry Form" on page 34).

2.) Only available as block material

4.3. 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 “Additional manual Type 2xxx 3xxx” on our website (see **operating instructions Type 2103** ▶).



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	12.1	23.8	TC52	–
20	20	26.9	1.6	50.5	114	16.0	30.3	TC43	–
25	25	33.7	2	50.5	129	19.0	37.0	TC44	–
40	40	48.3	2	64	161	27.6	52.4	TC46	–
50	50	60.3	2	77.5	190	35.5	68.3	TC47	–
65	65	76.1	2	91	190	35.5	63.3	TC48	–
80	80	88.9	2.3	106	222	51.0	98.1	TC49	–
100 ^{2.)}	100	114.3	2.3	130	350	63.5	127.0	TC50	–
DIN 32676 series A (DIN pipe)									
8	10	13	1.5	34	126	9.3	18.8	TD41	–
15	10	13	1.5	34	110	8.2	19.9	TD41	–
15	15	19	1.5	34	110	12.1	23.8	TD42	–
20	20	23	1.5	34	119	16.0	30.3	TD43	–
25	25	29	1.5	50.5	129	19.0	37.0	TD44	–
40	40	41	1.5	50.5	161	27.6	52.4	TD46	–
50	50	53	1.5	64	192	35.5	68.3	TD47	–
65	65	70	2	91	248	43.0	83.5	TC48	–
80	80	70	2	91	222	51.0	98.1	TC49	–

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ASME BPE									
8	1/4"	6.35	0.89	25	64.5	5.7	15.2	TG50	–
8	3/8"	9.53	0.89	25	89	5.7	15.2	TG01	AF34
8	1/2"	12.7	1.65	25	64	9.3	18.8	TG02	–
8	1/2"	12.7	1.65	25	89	9.3	18.8	TG02	AF34
15	1/2"	12.7	1.65	25	89	8.2	19.9	TG02	–
15	1/2"	12.7	1.65	25	108	8.2	19.9	TG02	AF34
15	3/4"	19.05	1.65	25	89	12.1	23.8	TG03	–
20	3/4"	19.05	1.65	25	102	16.0	30.3	TG03	–
20	3/4"	19.05	1.65	25	117	16.0	30.3	TG03	AF34
25	1"	25.4	1.65	50.5	114	19.0	37.0	TG04	–
25	1"	25.4	1.65	50.5	127	19.0	37.0	TG04	AF34
40	1 1/2"	38.1	1.65	50.5	140	27.6	52.4	TG05	–
40	1 1/2"	38.1	1.65	50.5	159	27.6	52.4	TG05	AF34
50	2"	50.8	1.65	64	159	35.5	68.3	TG06	–
50	2"	50.8	1.65	64	190	35.5	68.3	TG06	AF34
65	2 1/2"	63.5	1.65	77.5	249	43.0	83.5	TG07	–
80	2 1/2"	63.5	1.65	77.5	216	51.0	98.1	TG07	–
80	3"	76.2	1.65	91	222	51.0	98.1	TG08	–
100 ²⁾	4"	101.6	2.11	119	306	63.5	127.0	TG09	–

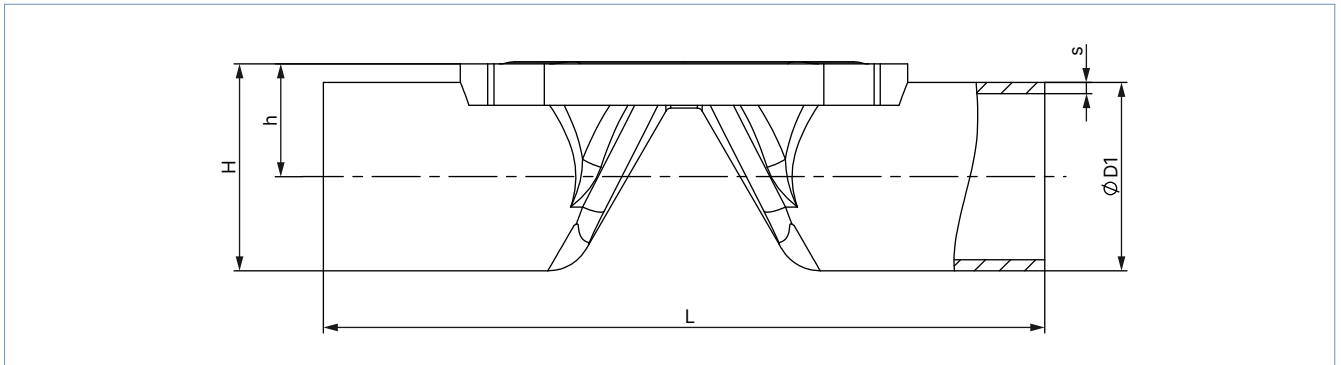
1.) This information is part of the product key (see "8.3. Bürkert Product Enquiry Form" on page 34).

2) Only available as block material

4.4. 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 “Additional manual Type 2xxx 3xxx” on our website (see **operating instructions Type 2103** ▶)..



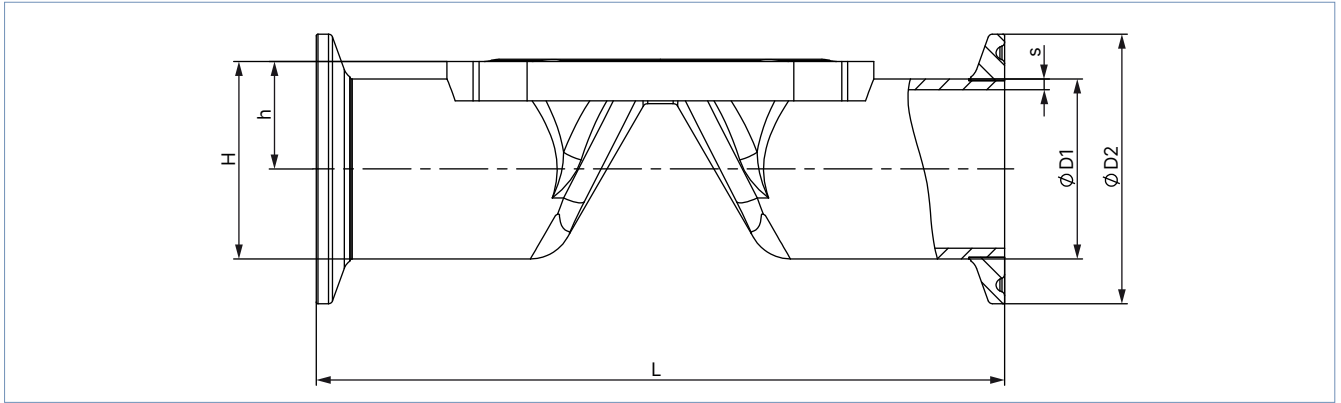
Diaphragm size	Port connection DN	ØD1	s	L	h	H	Product key ¹⁾
DIN EN ISO 1127 / ISO 4200 / DIN 11866 series B							
8	8	13.5	1.6	90	9.9	16.6	SA40
8	10	17.2	1.6	90	11.7	20.3	SA41
15	15	21.3	1.6	110	14.4	25.0	SA42
20	20	26.6	1.6	119	17.2	30.5	SA43
25	25	33.7	2	129	20.6	37.4	SA44
32	32	42.4	2	148	25.1	46.3	SA45
40	40	48.3	2	161	29.4	53.5	SA46
50	50	60.3	2	192	35.4	65.5	SA47
DIN 11850 - 2 / DIN 11866 series A / DIN EN 10357 series A							
8	10	13	1.5	90	9.9	16.4	SD40
15	15	19	1.5	110	13.2	22.7	SD42
15	20	23	1.5	119	15.2	26.7	SD43
20	25	29	1.5	129	18.2	32.7	SD44
25	32	35	1.5	148	21.2	38.7	SD45
32	40	41	1.5	161	24.4	44.9	SD46
40	50	53	1.5	192	31.7	58.2	SD47
ASME BPE / DIN 11866 series C							
8	1/2"	12.7	1.65	90	9.5	22.0	SA92
15	3/4"	19.05	1.65	117	13.2	25.7	SA93
20	1"	25.4	1.65	127	16.4	41.7	SODF
32	1 1/2"	38.1	1.65	159	23.0	48.2	SODH
40	2"	50.8	1.65	190	30.6	62.6	SODI
50	2 1/2"	63.5	1.65	192	37.4	69.1	SODJ
65	3"	76.2	1.65	250	46.3	84.4	SODK
80	4"	101.6	2.11	295	60.0	110.8	SODL

1.) This information is part of the product key (see "8.3. Bürkert Product Enquiry Form" on page 34).

4.5. 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 “Additional manual Type 2xxx 3xxx” on our website (see **operating instructions Type 2103** ▶).



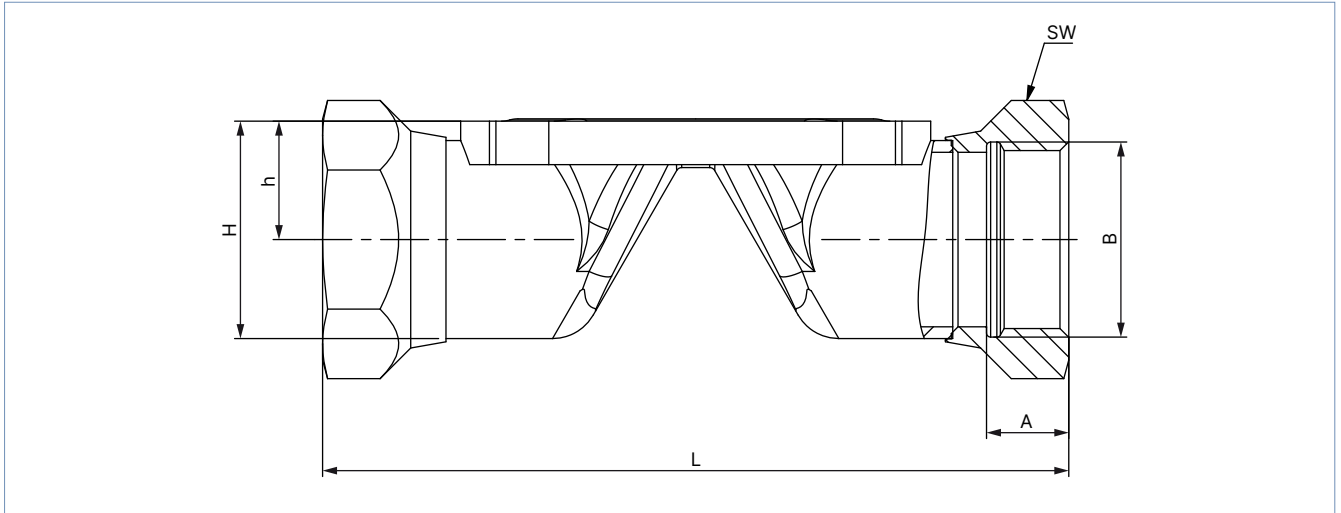
Diaphragm size	Port connection DN	ØD1	s	ØD2	L	h	H	Product key ¹⁾
DIN 32676 series B (ISO pipe)								
8	8	13.5	1.6	25	89	9.9	22.4	TC40
8	10	17.2	1.6	25	89	11.7	24.2	TC53
15	15	21.3	1.6	50.5	110	14.4	39.6	TC52
20	20	26.9	1.6	50.5	119	17.2	42.4	TC43
25	25	33.7	2	50.5	129	20.6	45.8	TC44
32	32	42.4	2	64	148	25.1	57.1	TC55
40	40	48.3	2	64	161	29.4	61.4	TC46
50	50	60.3	2	77.5	192	35.4	74.1	TC47
DIN 32676 series A (DIN pipe)								
8	10	13	1.5	34	89	9.9	26.9	TD41
15	15	19	1.5	34	110	13.2	30.2	TD42
15	20	23	1.5	34	119	15.2	32.2	TD43
20	25	29	1.5	50.5	129	18.2	43.5	TD44
25	32	35	1.5	50.5	148	21.2	46.5	TD45
32	40	41	1.5	50.5	161	24.4	49.7	TD46
40	50	53	1.5	64	192	31.7	63.7	TD47
ASME BPE								
8	1/2"	12.7	1.65	25	89	9.5	22.0	TG02
15	3/4"	19.05	1.65	25	102	13.2	25.7	TG03
20	1"	25.4	1.65	50.5	114	16.4	41.7	TG04
32	1 1/2"	38.1	1.65	50.5	140	23.0	48.2	TG05
40	2"	50.8	1.65	64	159	30.6	62.6	TG06
50	2 1/2"	63.5	1.65	77.5	190	37.4	69.1	TG07

1.) This information is part of the product key (see "8.3. Bürkert Product Enquiry Form" on page 34).

4.6. 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 “Additional manual Type 2xxx 3xxx” on our website (see **operating instructions Type 2103** ▶).



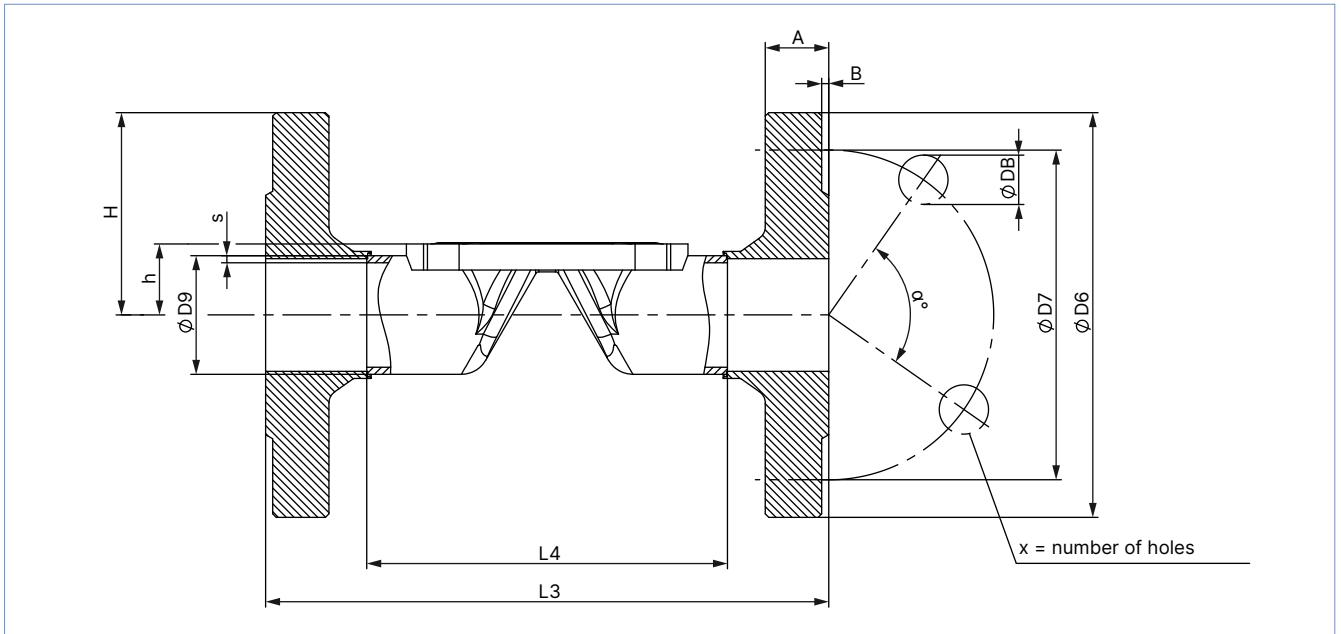
Diaphragm size	L	A	B	h	H	Spanner width of threaded ports	Product key ^{1.)}
8	85	9	G ¼	11.7	20.3	17	GM82
15	102	14	G ½	14.4	25.0	27	GM84
20	118	12	G ¾	17.2	30.5	32	GM85
25	127	14	G 1	20.6	37.4	41	GM86
32	146	16	G 1¼	25.1	46.3	50	GM87
40	159	18	G 1½	29.4	53.5	60	GM88
50	191	20	G 2	35.4	65.5	70	GM89
Diaphragm size	L	A	B	h	H	Spanner width of threaded ports	Product key ^{1.)}
8	85	9.7	Rc ¼	11.7	20.3	17	RC82
15	102	13.2	Rc ½	14.4	25.0	27	RC84
20	118	14.5	Rc ¾	17.2	30.5	32	RC85
25	127	16.8	Rc 1	20.6	37.4	41	RC86
32	146	19.1	Rc 1¼	25.1	46.3	50	RC87
40	159	19.1	Rc 1½	29.4	53.5	60	RC88
50	191	23.4	Rc 2	35.4	65.5	70	RC89
Diaphragm size	L	A	B	h	H	Spanner width of threaded ports	Product key ^{1.)}
8	85	10	NPT ¼	11.7	20.3	17	NM82
15	102	13.7	NPT ½	14.4	25.0	27	NM84
20	118	14	NPT ¾	17.2	30.5	32	NM85
25	127	16.8	NPT 1	20.6	37.4	41	NM86
32	146	17.3	NPT 1¼	25.1	46.3	50	NM87
40	159	17.3	NPT 1½	29.4	53.5	60	NM88
50	191	17.6	NPT 2	35.4	65.5	70	NM89

1.) This information is part of the product key (see “8.3. Bürkert Product Enquiry Form” on page 34).

4.7. 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 “Additional manual Type 2xxx 3xxx” on our website (see **operating instructions Type 2103** ▶).



Diaphragm size	L4	L3	s3	ØD9	ØD6	ØD7	a°	ØDB	A	B	X	Product key ¹⁾
DIN EN 1092 - 1												
15	76.5	130	1.6	21.3	76.5	65.0	90	14	16	2	4	FD22
20	92.5	150	1.6	26.9	92.5	75.0	90	14	18	2	4	FD23
25	102.5	160	2.0	33.7	102.5	85.0	90	14	18	2	4	FD24
32	122.5	180	2.0	42.4	122.5	100.0	90	18	18	2	4	FD25
40	136.5	200	2.0	48.3	136.5	110.0	90	18	18	3	4	FD26
50	160.5	230	2.0	60.3	160.5	125.0	90	18	20	3	4	FD27
ANSI B16.5												
15	67	130	1.6	21.3	89.0	60.5	90	15.7	11.2	1.6	4	FA02
25	106	160	2.0	33.7	108.0	79.2	90	15.7	14.2	1.6	4	FA04
40	128	200	2.0	48.3	127.0	98.6	90	15.7	17.5	1.6	4	FA06
50	151	230	2.0	60.3	152.0	120.7	90	19.1	19.1	1.6	4	FA07
JIS 10K												
15	89	130	1.6	21.3	95.0	70.0	90	15	12	1	4	FJ01
20	103	150	1.6	26.9	100.0	75.0	90	15	14	1	4	FJ02
25	116	160	2.0	33.7	125.0	90.0	90	19	14	1	4	FJ03
40	147	200	2.0	48.3	140.0	105.0	90	19	16	2	4	FJ05
50	175	230	2.0	60.3	155.0	120.0	90	19	16	2	4	FJ06

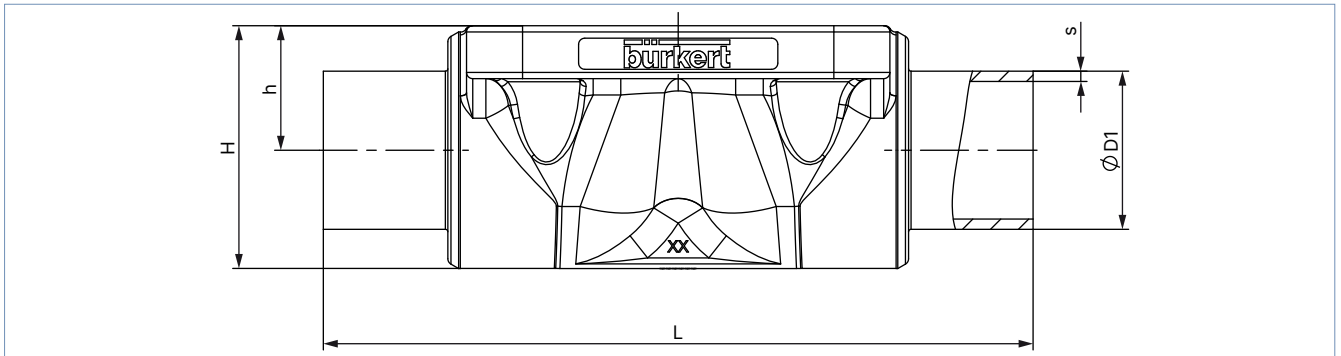
1.) This information is part of the product key (see “8.3. Bürkert Product Enquiry Form” on page 34).

DTS 1000450597 EN Version: L Status: RL (released | freigegeben | validé) printed: 29.08.2024

4.8. 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 “Additional manual Type 2xxx 3xxx” on our website (see **operating instructions Type 2103** ▶).



Diaphragm size	Port connection DN	ØD1	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	SA42
20	15	21.3	1.6	119	18	32.9	SA42
20	20	26.9	1.6	119	18	32.7	SA43
25	25	33.7	2	129	20	39	SA44
40	32	42.4	2	161	28.6	55	SA45
40	40	48.3	2	161	28.6	55	SA46
50	50	60.3	2	192	35.5	68	SA47
65	65	76.1	2	192	43	82	SA48
80	80	76.1	2	250	51	101	SA48
80	80	88.9	2.3	250	51	101	SA49
100	100	114.3	2.3	295	63.5	123.5	SA39
DIN 11850 - 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	SD42
20	20	23	1.5	119	18	32.8	SD43
25	25	29	1.5	129	20	39	SD44
40	40	41	1.5	161	28.6	55	SD46
50	50	53	1.5	192	35.5	68	SD47
65	65	70	2	192	43	82	SD48
80	80	85	2	250	51	101	SD49
100	100	104	2	295	63.5	123.5	SD50
ASME BPE / DIN 11866 series C							
8	1/4"	6.35	0.89	64.5	9.6	18.6	SA90
8	3/8"	9.53	0.89	89	9.6	18.6	SA91
8	1/2"	12.7	1.65	89	9.6	18.6	SA92
15	3/4"	19.05	1.65	102	13.5	25	SA93
20	3/4"	19.05	1.65	119	18	32.8	SA93
20	1"	25.4	1.65	119	18	32.7	SODF
25	1"	25.4	1.65	114	20	39	SODF
40	1 1/2"	38.1	1.65	140	28.6	55	SODH
50	2"	50.8	1.65	159	35.5	68	SODI
50	2 1/2"	63.5	1.65	192	35.5	68	SODJ
65	2 1/2"	63.5	1.65	192	43	82	SODJ
80	3"	76.2	1.65	250	51	101	SODK
100	4"	101.6	2.11	295	63.5	123.5	SODL

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Diaphragm size	Port connection DN	ØD1	s	L	h	H	Product key ¹⁾
BS 4825							
8	8	6.35	1.2	64.5	9.6	18.6	SODB
8	10	9.53	1.2	89	9.6	18.6	SODC
8	15	12.7	1.2	89	9.6	18.6	SODD
15	20	19.05	1.2	102	14	25.5	SODE
20	25	25.4	1.65	119	18	32.8	SODF
25	25	25.4	1.65	114	20	39	SODF
40	40	38.1	1.65	140	28.6	55	SODH
50	50	50.8	1.65	159	35.5	68	SODI
50	65	63.5	1.65	192	35.5	68	SODJ
65	65	63.5	1.65	192	43	82	SODJ
80	80	76.2	1.65	250	51	101	SODK
100	100	101.6	2.11	295	63.5	123.5	SODL
SMS 3008							
20	25	25	1.2	119	18	32.8	SA60
25	25	25	1.2	129	20	39	SA60
40	40	38	1.2	161	28.6	55	SA62
50	50	51	1.2	192	35.5	68	SA63
DIN 11850 - 0							
8	4	6	1	90	9.6	18.6	SC40
8	6	8	1	90	9.6	18.6	SC41
8	8	10	1	90	9.6	18.6	SC42
15	15	18	1.5	110	13.5	25	SC43
20	20	22	1.5	119	18	32.8	SC44
25	25	28	1.5	129	20	39	SC45
25	32	34	1.5	129	20	39	SC46
40	40	40	1.5	161	28.6	56	SC47
50	50	52	1.5	192	35.5	68	SC48

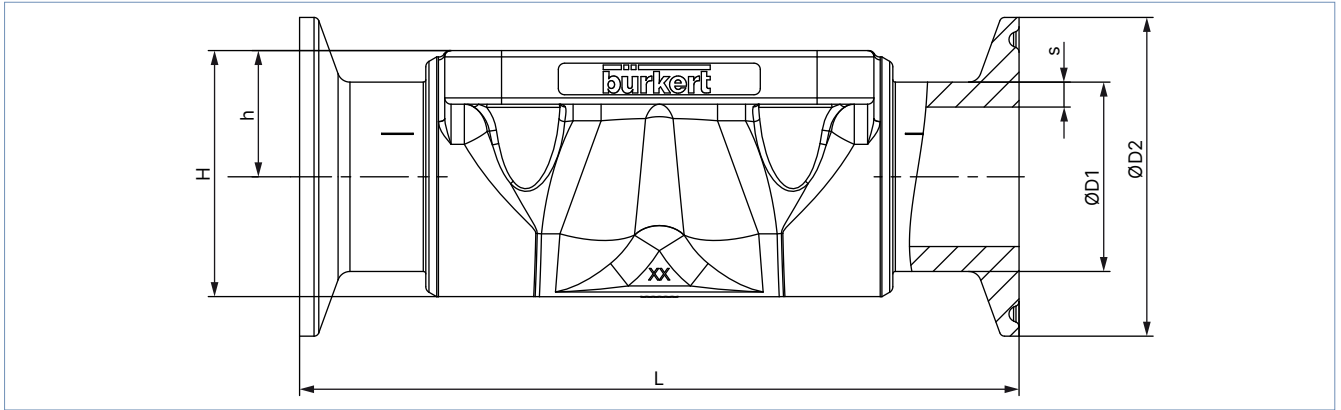
1.) This information is part of the product key (see "8.3. Bürkert Product Enquiry Form" on page 34).

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4.9. 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 “Additional manual Type 2xxx 3xxx” on our website (see **operating instructions Type 2103** ▶).



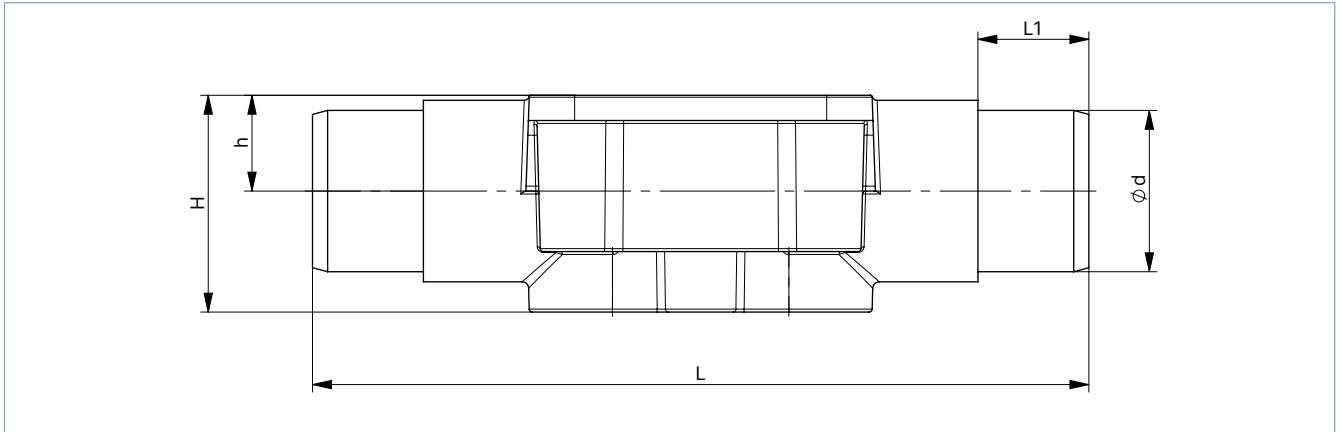
Diaphragm size	Port connection DN	ØD1	s	ØD2	L	h	H	Product key ¹⁾
DIN 32676 series B (ISO pipe)								
25	25	33.7	2	50.5	129	20	39	TC44
40	40	48.3	2	64	161	28.6	55	TC46
50	50	60.3	2	77.5	192	35.5	68	TC47
DIN 32676 series A (DIN pipe)								
15	15	19	1.5	34	110	13.5	25	TD42
20	20	23	1.5	34	119	18	32.8	TD43
25	25	29	1.5	50.5	129	20	39	TD44
40	40	41	1.5	50.5	161	28.6	55	TD46
50	50	53	1.5	64	192	35.5	68	TD47
ASME BPE								
8	¾"	9.53	0.89	25	89	9.6	18.6	TG01
8	½"	12.7	1.65	25	89	9.6	18.6	TG02
15	¾"	19.05	1.65	25	102	13.5	23	TG03
20	¾"	19.05	1.65	25	117	18	25	TG03
25	1"	25.4	1.65	50.5	114	18	40	TG04
40	1½"	38.1	1.65	50.5	140	28.6	55	TG05
50	2"	50.8	1.65	64	159	35.5	68	TG06
50	2½"	63.5	1.65	77.5	190	35.5	68	TG07
65	2½"	63.5	1.65	77.5	249	43	82	TG07
80	3"	76.2	1.65	91	306	51	101	TG08
100	4"	101.6	2.11	119	352	63.5	123.5	TG09
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	TH43
25	25	25.4	1.65	50.5	114	20	39	TG04
40	40	38.1	1.65	50.5	140	28.6	55	TG05
50	50	50.8	1.65	64	159	35.5	68	TG06
50	65	63.5	1.65	77.5	190	35.5	68	TG07
Clamp 34.0 similar to DIN 32676 series B (ISO pipe)								
15	15	21.3	1.6	34	110	13.5	25	TC42

1.) This information is part of the product key (see "8.3. Bürkert Product Enquiry Form" on page 34).

4.10. Plastic valve body (PV, PP, PD) with spigot connection

Note:

Dimensions in mm, unless otherwise stated



Diaphragm size	Ød	Wall thickness	h	H	L	L1	Product key ¹⁾
PVC-U (PV)							
15	20	2.5	12	29	125	16	KS25
20	25	2.5	17	36	145	19	KS26
25	32	3.5	19	43	155	22	KS27
32	40	4	25	53	175	26	KS28
40	50	5	29	66	194	31	KS29
50	63	6.5	36	79	224	44	KS30
PVDF (PD)							
15	20	2.5	12	29	123	16	SS25
20	25	2.5	17	36	143	19	SS26
25	32	3.5	19	43	154	22	SS27
32	40	4	25	52	173	26	SS28
40	50	5	29	66	194	31	SS29
50	63	6.5	36	79	224	44	SS30
PP (PP)							
15	20	2.5	12	29	124	16	SS25
20	25	2.5	17	36	144	19	SS26
25	32	3.5	19	43	155	22	SS27
32	40	4	25	52	174	26	SS28
40	50	5	29	66	194	31	SS29
50	63	6.5	36	79	224	44	SS30

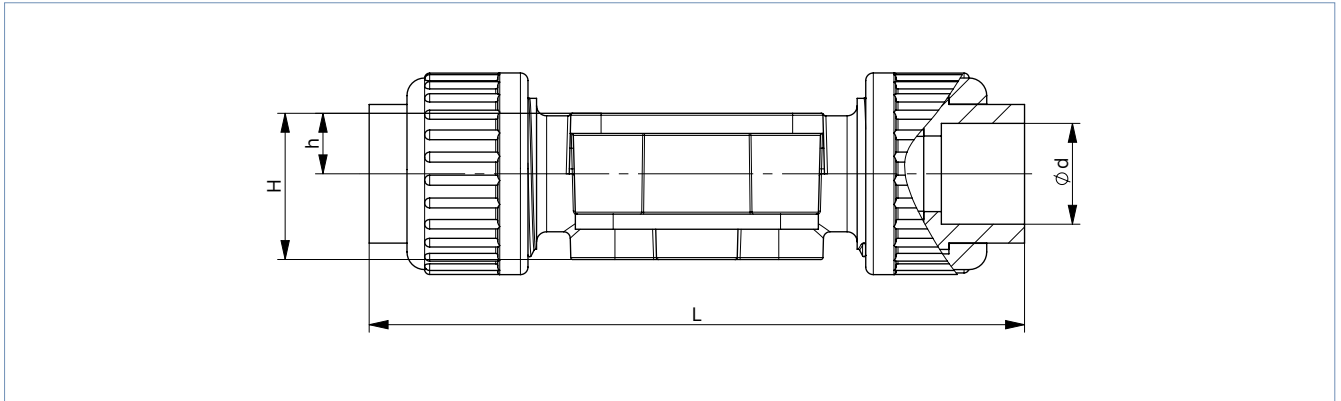
1.) This information is part of the product key (see "8.3. Bürkert Product Enquiry Form" on page 34).

2.) The specified values refer to the new plastic body. The previous enclosures (REV1) may differ slightly from the new dimensions.

4.11. Plastic valve body (PW, PV, PP, PD) with true union

Note:

Dimensions in mm, unless otherwise stated



Diaphragm size	L	h	H	Ø d	Product key ¹⁾
PVC-C (PW)					
15	128	12	29	20	KM25
20	152	17	36	25	KM26
25	166	19	43	32	KM27
32	192	25	53	40	KM28
40	222	29	66	50	KM29
50	266	36	79	63	KM30
PVC-U (PV)					
15	128	12	29	20	KM25
20	152	17	36	25	KM26
25	167	19	43	32	KM27
32	192	25	53	40	KM28
40	223	29	66	50	KM29
50	266	36	79	63	KM30
PVDF (PD)					
15	127	12	29	20	SM25
20	151	17	36	25	SM26
25	166	19	43	32	SM27
32	192	25	52	40	SM28
40	221	29	66	50	SM29
50	264	36	79	63	SM30
PP (PP)					
15	125	12	29	20	SM25
20	145	17	36	25	SM26
25	158	19	43	32	SM27
32	181	25	52	40	SM28
40	208	29	66	50	SM29
50	245	36	79	63	SM30

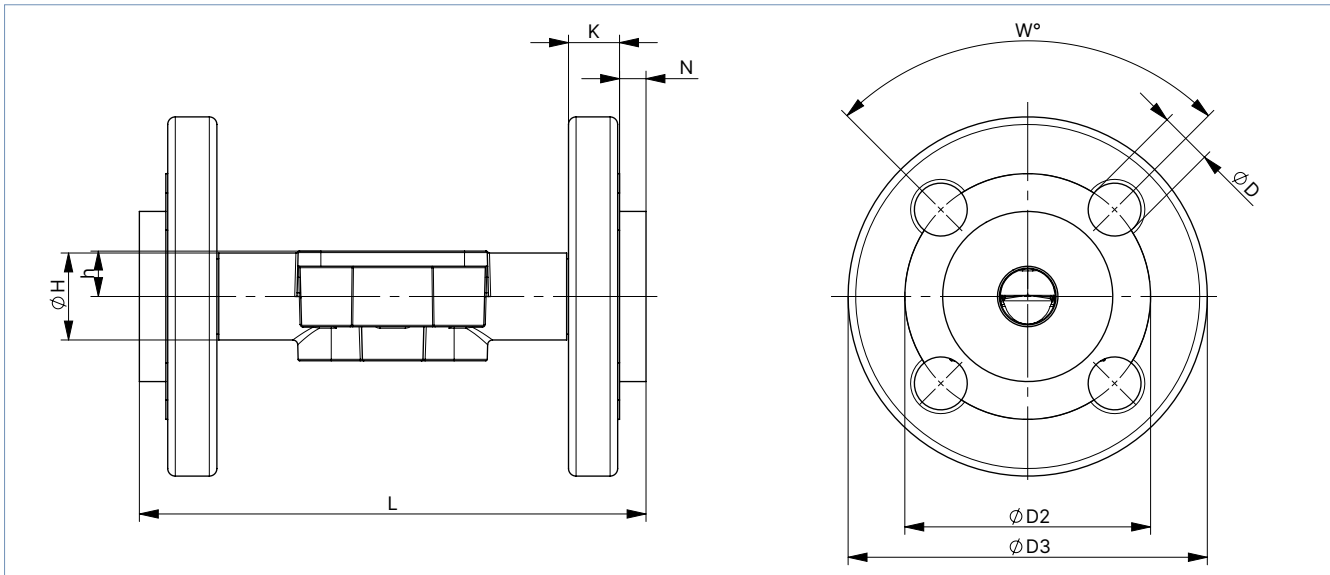
1.) This information is part of the product key (see "8.3. Bürkert Product Enquiry Form" on page 34).

2.) The specified values refer to the new plastic body. The previous enclosures (REV1) may differ slightly from the new dimensions.

4.12. Plastic valve body (PV, PP, PD) with flange connection

Note:

Dimensions in mm, unless otherwise stated



Diaphragm size	L	ØD2	ØD3	K	H	h	ØD	W	N	Product key ¹⁾
PVC-U (PV)										
15	131	65.5	96	12	29	12	14	4 × 90	5.9	FL24
20	151	75	105	14	36	17	14	4 × 90	6.9	FL25
25	161	85	115	15	43	19	14	4 × 90	6.9	FL26
32	181	100	140	17	53	25	18	4 × 90	7.9	FL27
40	200	110	150	17	66	29	18	4 × 90	8	FL28
50	230	125	165	18	79	36	18	4 × 90	9	FL29
65	290	145	185	19	92	47	18	4 × 90	10	FL30
80	310	160	200	36	107	50	18	8 × 45	-	FF31
100	350	180	225	35	134.5	65.5	18	8 × 45	-	FF32
PVDF (PD)										
15	129	65.5	96	12	29	12	14	4 × 90	5.9	FL24
20	149	75	105	14	36	17	14	4 × 90	6.9	FL25
25	160	85	115	15	43	19	14	4 × 90	6.9	FL26
32	179	100	140	17	52	25	18	4 × 90	7.9	FL27
40	200	110	150	17	65	29	18	4 × 90	8	FL28
50	230	125	165	18	79	36	18	4 × 90	9	FL29
65	290	145	185	19	92	47	18	4 × 90	10	FL30
80	310	160	200	36	107	50	18	8 × 45	-	FF31
100	350	180	225	35	134.5	65.5	18	8 × 45	-	FF32
PP (PP)										
15	130	65.5	96	12	29	12	14	4 × 90	5.9	FL24
20	150	75	105	14	36	17	14	4 × 90	6.9	FL25
25	161	85	115	15	43	19	14	4 × 90	6.9	FL26
32	180	100	140	17	52	25	18	4 × 90	7.9	FL27
40	200	110	150	17	66	29	18	4 × 90	8	FL28
50	230	125	165	18	79	36	18	4 × 90	9	FL29
65	290	145	185	19	92	47	18	4 × 90	10	FL30
80	310	160	200	36	107	50	18	8 × 45	-	FF31
100	350	180	225	35	134.5	65.5	18	8 × 45	-	FF32

1.) This information is part of the product key (see "8.3. Bürkert Product Enquiry Form" on page 34).

2.) The specified values refer to the new plastic body. The previous enclosures (REV1) may differ slightly from the new dimensions.

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5. Performance specifications

5.1. 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 (m³/h) for elastomer diaphragm
- 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 [m ³ /h]					
			DIN EN ISO 1127 ISO 4200 DIN 11866 series B	DIN 11850 - 2 DIN 11866 series A DIN EN 10357 series A	ASME BPE DIN 11866 series C	DIN 11850 - 0	BS4825	SMS3008
DN	[mm]	[inch]	[m ³ /h]	[m ³ /h]	[m ³ /h]	[m ³ /h]	[m ³ /h]	[m ³ /h]
8	6	1/8"	–	–	–	1.1	–	–
8	8	1/4"	1.5	–	0.7	1.7	0.5	–
8	10	3/8"	1.5	1.5	1.6	–	1.4	–
8	15	1/2"	–	–	1.5	–	–	–
15	10	3/8"	5.5	3.5	–	–	–	–
15	15	1/2"	6.5	6.5	3.1	–	3.7	–
15	20	3/4"	–	–	6.5	–	–	–
20	20	3/4"	12.5	12.4	8.4	–	8.9	–
25	25	1"	18	20	15.5	–	15.5	16
40	32	1 1/4"	–	34	–	–	–	–
40	40	1 1/2"	41	40	37	–	37	38
50	50	2"	66	66	66	–	66	66
50	65	2 1/2"	–	–	70	–	70	70
65	65	2 1/2"	110	110	110	–	–	–
80	65	2 1/2"	–	150	–	–	–	–
80	80	3"	175	175	180	–	–	–
100	100	4"	235	240	235	–	–	–

Tube valve body (VP)

Diaphragm size	Port connection		K _v value [m ³ /h]		
			DIN EN ISO 1127 ISO 4200 DIN 11866 series B	DIN 11850 - 2 DIN 11866 series A DIN EN 10357 series A	ASME BPE DIN 11866 series C
DN	[mm]	[inch]	[m ³ /h]	[m ³ /h]	[m ³ /h]
8	8	1/4"	1.9	–	–
8	10	3/8"	–	1.9	–
8	15	1/2"	–	–	1.8
15	10	3/8"	–	–	7.1
15	15	1/2"	7.2	7.4	–
15	20	3/4"	–	7.4	–
20	20	3/4"	13.5	–	–
20	25	1"	–	14.9	12.8
25	32	1 1/4"	–	22.3	–
25	25	1"	20.8	–	–
32	40	1 1/2"	–	34.8	31
40	40	1 1/2"	47.9	–	–
40	50	2"	–	46.2	43
50	50	2"	60	–	60
65	80	3"	–	–	85
80	100	4"	–	–	145

Cast valve body (VG)

Diaphragm size DN	Port connection		K _v value [m ³ /h]
	[mm]	[inch]	
8	8	¼"	1
15	15	½"	5.6
20	20	¾"	10.7
25	25	1"	14.6
40	40	1½"	35
50	50	2"	47
65	65	2½"	65
80	80	3"	100
100	100	4"	180

Plastic valve body (PW, PV, PP, PD)

Diaphragm size DN	Seal material	Port connection		K _v value	
		[mm]	[Zoll]	Previous plastic valve body Product key REV1	New plastic valve body
15	EPDM	15	½"	3	8.1
	PTFE/EPDM				7.5
20	EPDM	20	¾"	7	14.1
	PTFE/EPDM				13.1
25	EPDM	25	1"	11.4	25.5
	PTFE/EPDM				21.5
32	EPDM	32	1¼"	17	38.5
	PTFE/EPDM				37.5
40	EPDM	40	1½"	24.5	57
	PTFE/EPDM				56
50	EPDM	50	2"	41.5	92
	PTFE/EPDM				92
65	EPDM	65	2½"	60	-
	PTFE/EPDM				-
80	EPDM	80	3"	105	-
	PTFE/EPDM				-
100	EPDM	100	4"	154	-
	PTFE/EPDM				-

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5.2. 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. The valve closes dynamically against maximum operating pressure.
- Information for control function B and I is available on request.

Diaphragm size	Actuator size Ø	Pilot pressure	Maximum operating pressure for seal material	
			EPDM, FKM	PTFE/EPDM, advanced PTFE/EPDM, laminate of GYLON® and EPDM
DN	[mm]	[bar]	[bar]	[bar]
8	50 (D)	3.7...10	10	–
		4.4...10	–	10
15	50 (D)	5.0...10	7.5	–
	70 (M)	4.8...10	10	10
20	70 (M)	4.8...10	10	10
25	70 (M)	4.8...10	6.5	4.5
	90 (N)	5.0...10	10	8
32	90 (N)	5.0...10	8	6
40	90 (N)	5.0...10	5.5	5 ¹⁾
	130 (P)	5.0...7	10	10
50	130 (P)	5.0...7	8	7
65	130 (P)	5.0...7	5.5	3.5
	225 (L)	2.7...7	8	8 ²⁾
80	225 (L)	5.4...7	10	8 ¹⁾
100	225 (L)	5.6...7	8	5.5

1.) GYLON® (ER) not approved

2.) GYLON® is 6,5 bar.

6. Product accessories

Electrical position indicator	
Control head	
Type 8691 ▶ Actuator size Ø 70/90/130/225 mm	
	<p>The control heads Type 8691 and Type 8695 are optimised for integrated mounting on process valves of the 21XX series. The valve position is detected without contact via an analogue sensor element. The sensor element automatically detects and stores the valve end positions during commissioning using the teach function. The integrated pilot valve controls single-acting or double-acting actuators. The valve switching status is indicated by coloured high-performance LEDs.</p> <p>Features</p> <ul style="list-style-type: none"> • Status indication via coloured high-performance LEDs • Wear-free inductive position sensor • Pilot valve with manual override • Teach function for automatic recognition of valve end positions • Hygienic stainless steel design • Easy-to-clean, chemically resistant housing according to IP65/67, 4X rating • AS-Interface, IO-Link, Bürkert system bus (bÜS)
Type 8695 ▶ Actuator size Ø 50 mm	
	<p>Customer benefits</p> <ul style="list-style-type: none"> • Simple and safe commissioning using the teach function • Easy process monitoring and fault detection through visible coloured high-performance LEDs • High degree of system availability due to increased actuator service life by means of spring chamber ventilation • Minimal space requirement in plant piping for more flexibility in plant design
Pneumatic control unit/position feedback	
Type 8690 ▶ Actuator size Ø 70/90/130/225 mm	
	<p>The pneumatic control units Type 8690 and 8697 are optimised for integrated mounting on process valves of the 21XX series. Mechanical or inductive limit switches detect the valve position. The integrated pilot valve controls single-acting or double-acting (Type 8690) actuators.</p> <p>Features</p> <ul style="list-style-type: none"> • Optical position indicator • Mechanical or inductive proximity switches for end position detection • Pilot valve with manual override • Compact design • Easy-to-clean, chemically resistant housing according to IP65/67, 4X rating • Optionally intrinsically safe design according to ATEX/IECEX
Type 8697 ▶ Actuator size Ø 50 mm	
	<p>Customer benefits</p> <ul style="list-style-type: none"> • Simple and safe commissioning using the teach function (Type 8697) • Signal reliability due to the automatic adjustment of the limit switches • Minimal space requirement in plant piping for more flexibility in plant design

Process controller TopControl
Type 8693 ▶ Actuator size Ø 70/90/130/225 mm


The intelligent process controller Type 8693 is designed for integrated mounting on pneumatic actuators from the process control valve series Type 23xx/2103 and especially for the requirements of hygienic process conditions. Using the TUNE functions, the positioner and process controller can be initialised automatically. Easy operation and selection of additional software functions as well as parameterisation are carried out via the large graphic display and a touch keypad. Device configuration and parameterisation can also be conveniently carried out by the Bürkert Communicator software via a PC interface.

Features

- Contactless position sensor
- Universal control system for single and double acting actuators
- Highly dynamic actuating system without internal control air consumption in the balanced state
- Integrated diagnostic functions for valve monitoring
- Automatic initialisation of the positioner and process controller using the TUNE function
- Safeguarding in the event of failure of the electrical or pneumatic auxiliary power
- PROFIBUS DPV1, EtherNet/IP, PROFINET, Modbus TCP, Bürkert system bus (bÜS)
- Compact and robust hygienic stainless steel design

Customer benefits

- Quick and easy commissioning
- Intuitive and simple operation via a graphic display with backlight and touch keypad
- High system availability due to increased drive service life by means of spring chamber ventilation
- Guaranteed reliability and predictable maintenance through valve monitoring and diagnostics
- Easy maintenance and process monitoring

Positioner TopControl
Type 8692 ▶ Actuator size Ø 70/90/130/225 mm


The intelligent electropneumatic positioner Type 8692 is designed for integrated attachment to pneumatic actuators of the process control valve series Type 23xx/2103 and especially for the requirements of hygienic process conditions. The positioner can be initialised automatically using the TUNE function. Easy operation and the selection of the extensive additional software functions as well as parameterisation are carried out via the large graphic display and the touch keypad. The device configuration and parameterisation can also be conveniently carried out using the Bürkert Communicator software via a PC interface.

Features

- Contactless position sensor
- Universal positioning system for single and double-acting actuators in the balanced state
- Highly dynamic positioning system without internal control air consumption
- Integrated diagnostic functions for valve monitoring
- Automatic initialisation of the positioner by using the TUNE function
- Safeguard in the event of failure of the electrical or pneumatic auxiliary power
- PROFIBUS DPV1, EtherNet/IP, PROFINET, Modbus TCP, Bürkert system bus (bÜS)
- Compact and robust hygienic stainless steel design

Customer benefits

- Quick and easy commissioning
- Intuitive and simple operation via graphic display with backlight and touch keypad
- High system availability due to increased drive service life by means of spring chamber ventilation
- Guaranteed reliability and predictable maintenance through valve monitoring and diagnostics

Positioner TopControl BASIC
Type 8694 ▶ Actuator size Ø 70/90/130/225 mm


The compact positioner Type 8694/8696 is designed for integrated attachment to pneumatic actuators of the Type 23xx/2103 process control valve series and especially for the requirements of hygienic process conditions. Operation and parameterisation are performed via push buttons and DIP switches. The device configuration and parameterisation can also be conveniently carried out using the Bürkert Communicator software via a PC interface.

Features

- Contactless position sensor
- Universal positioning system for single and double-acting actuators
- Ultra dynamic positioning system without internal control air consumption
- AS-Interface, IO-Link, Bürkert system bus (bÜS) (only 8694)
- Compact and robust hygienic stainless steel design

Type 8696 ▶ Actuator size Ø 50 mm

Customer benefits

- Simple and safe commissioning using the Teach function
- Minimum space requirement in the plant pipework for more flexibility in plant design
- High system availability due to increased drive service life by means of spring chamber ventilation

Process controller SideControl Remote
Type 8793 ▶ with remote sensor 8798 ▶ Actuator size Ø 70/90/130/225 mm


The intelligent digital positioner and process controller Type 8793 is designed for mounting on lift or swivel drives with standardisation in accordance with IEC 534 - 6 or VDI/VDE 3845 for demanding control tasks. The variant with remote position sensor Type 8798 is used to control Bürkert process control valves. It is operated via a graphic display with backlight. The initialisation of the positioner and process controller can be done automatically using the TUNE function. The type of controlled system is automatically recognised and the appropriate controller structure with the corresponding optimum parameter set is determined.

Features

- Universal control system for single and double acting actuators
- Integrated diagnostic functions for valve monitoring
- Automatic initialisation of the position and process controller using the TUNE function
- Ultra-dynamic actuating system without internal control air consumption
- Illuminated graphic display with backlight and touch keypad
- PROFIBUS DPV1, EtherNet/IP, PROFINET, Modbus TCP, Bürkert system bus (bÜS)
- Compact and robust design
- Adaptation according to IEC 534 - 6 or VDI/VDE 3845 for lift and swivel drives or as remote variant on Bürkert process valves

Customer benefits

- Quick and easy commissioning
- Intuitive and simple operation via graphic display with backlight and touch keypad
- Guaranteed reliability and scheduled maintenance thanks to valve monitoring and diagnostics
- Easy maintenance and process monitoring
- Long service life

Positioner SideControl Remote

Positioner Type 8792 ▶ with remote sensor Type 8798 ▶ Actuator size Ø 70/90/130/225 mm



The intelligent digital positioner and process controller Type 8792 is designed for attachment to lift and swivel drives with standardisation according to IEC 534 - 6 or VDI/VDE 3845 for demanding control tasks. The Type 8798 version with remote position sensor is used to control Bürkert process control valves. It is operated via a graphic display with backlight. The initialisation of the positioner and process controller can be done automatically by using the TUNE function.

Features

- Illuminated graphic display with backlight and touch keypad
- Universal control system for single and double acting actuators
- Ultra-dynamic actuating system without internal control air consumption
- Integrated diagnostic functions for valve monitoring
- PROFIBUS DPV1, EtherNet/IP, PROFINET, Modbus TCP, Bürkert system bus (büS)
- Compact and robust design
- Adaptation according to IEC 534 - 6 or VDI/VDE 3845 for lift and swivel drives or as remote variant on Bürkert process valves

Customer benefits

- Quick and easy commissioning
- Intuitive and simple operation via a graphic display with backlight and touch keypad
- Guaranteed reliability and scheduled maintenance thanks to valve monitoring and diagnostics
- Long service life

Positioner SideControl BASIC Remote

Positioner Type 8791 ▶ with remote sensor Type 8798 ▶ Actuator size Ø 70/90/130/225 mm



The positioner Type 8791 is designed for mounting on lift or swivel drives with standardisation in accordance with IEC 534 - 6 or VDI/VDE 3845 for simple control tasks. The variant with the remote sensor Type 8798 is used to control Bürkert process control valves. All operating elements are located inside the housing.

Features

- Simple design
- Universal control system for single and double acting actuators
- Highly dynamic actuating system without internal control air consumption in the balanced state
- Adaptation according to IEC 534 - 6 or VDI/VDE 3845 for lift and swivel drives or as remote variant on Bürkert process valves
- AS-Interface, IO-Link, Bürkert system bus (büS) (only for positioner Type 8791 BASIC Remote)

Positioner IP20 Type 8791 ▶ with remote sensor Type 8798 ▶ Actuator size Ø 70/90/130/225 mm



Customer benefits

- Simple commissioning
- Simple device for simple control tasks
- Low energy consumption

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7. Networking and combination with other Bürkert products

7.1. Possible combinations

For ELEMENT valve system Type 8802-DF with TopControl

Note:

The continuous ELEMENT valve system Type 8802-DF consists of a diaphragm valve Type 2103 and a digital electropneumatic positioner Type 8692 (for valve actuator size Ø 70/90/130/225 mm), a digital electropneumatic process controller Type 8693 (for valve actuator size Ø 70/90/130/225 mm), a basic digital electropneumatic positioner Type 8694 (for valve actuator size Ø 70/90/130/225 mm) or a digital electropneumatic positioner Type 8696 (for valve actuator size Ø 50 mm).

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

Example:



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For ELEMENT valve system Type 8802-DF with SideControl Remote

Note:

The **continuous ELEMENT valve system Type 8802-DF** with **SideControl** consists of a **diaphragm valve Type 2103** and a digital electropneumatic **SideControl process controller Type 8793** (for valve actuator size Ø 70/90/130/225 mm) or a digital electropneumatic **SideControl positioner Type 8792/8791** (for valve actuator size Ø 70/90/130/225 mm).

The SideControls can only be used in combination with the position measuring system Type 8798.

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

Example:



For ELEMENT valve system Type 8801-DF with control head or pneumatic control unit/position feedback

Note:

A decentralised automated valve system On/Off ELEMENT Type 8801-DF consists of a diaphragm valve Type 2103 and a valve control head Type 8691/8695 or a pneumatic control unit Type 8690/8697.

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

Example:



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8. Ordering information

8.1. Bürkert eShop



Bürkert eShop – Easy ordering and quick delivery

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

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8.2. Bürkert product filter



Bürkert product filter – Get quickly to the right product

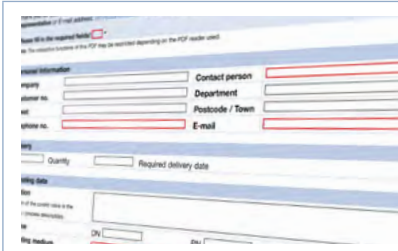
You want to select products comfortably based on your technical requirements? Use the Bürkert product filter and find suitable articles for your application quickly and easily.

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8.3. Bürkert Product Enquiry Form

Note:

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



Bürkert Product Enquiry Form – Your enquiry quickly and compactly

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

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