







Electromotive 2-way diaphragm control valve

- Safety position through energy storage
- Adjustable driving force
- Diagnostics functions and fieldbus connection
- Wetted surfaces in Ra ≤ 0.38 µm...1.6 µm (optionally electropolished)
- Available in nominal diameters DN 06...DN 100

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 Other language versions may be temporarily out of date and will be updated accordingly.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 ME61 ▸
EDIP process display



Type ME63 ▸
Industrial Ethernet Gateway, IP65/IP67/IP69k



Type ME43 ▸
Fieldbus gateway



Type 8098 ▸
FLOWave SAW flowmeter

Type description

The externally controlled Type 3363 diaphragm valve consists of an electrically controlled linear actuator (positioner), a diaphragm and a 2-way valve body. The electric actuator with ball screw ensures usage under hygienic or aggressive ambient conditions. The flow-optimised valve body with minimum dead space enables high flow values and a wide range of possible applications. An optional energy storage device guarantees the safety position in the event of a power failure. The position is indicated by means of a 360° LED light ring. The actuator has a drive force adjustment to protect the diaphragm. A correspondingly high IP protection IP65/IP67 ensures adequate splash protection. The electromotive actuator of the diaphragm valve with ball screw moves to the desired end position at a particularly high speed of up to 4 mm/s. Moreover, the valve is also equipped with a mechanical position indicator and corresponding explosion protection ATEX/II 3G Ex ec IIC T4 Gc/II 3D Ex tc IIIC T135 °C Dc.

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1. General technical data

Note:

- AG2: actuator size 2 with a nominal force of 2500 N for diaphragm size 8...40
- AG3: actuator size 3 with a nominal force of 11500 N for diaphragm size 40...100

Product properties	
Dimensions	Further information can be found in chapter "4. Dimensions" on page 11.
Material	
Forged steel valve body (VS) [1.]	Forged stainless steel 1.4435 according to BN2 DIN EN 10222 - 5, F316L according to ASTM A182/A182M and 316L according to ASME BPE
Stainless steel block material (VI etc.) [1.]	Block material 1.4435 according to BN2 and 316L according to ASME BPE table DT-3
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 investment cast material 1.4435 / 316L
Plastic valve body (PW, PV, PP, PD) [1.]	PVC-C, PVC-U, PP, PVDF
Design	Diaphragm control valve
Diaphragm	EPDM (AD) [1.], PTFE/EPDM (EA) [1.], Advanced PTFE/EPDM (EU) [1.], laminate of GYLON® and EPDM (ER) [1.]
Diaphragm size	8...100, for plastic valve body 15...100
Standard surface quality [2.]	
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)
Stainless steel block material (VI etc.) [1.]	Internally electrically polished: Ra ≤ 0.38 µm (NO17) [1.] (ASME BPE SF4/DIN HE4) (externally electrically polished) Internally mechanically polished: Ra ≤ 0.5 µm (NO14) [1.] (ASME BPE SF1) (externally mechanically machined)
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)
Cast valve body (VG) [1.]	Internally electrically polished: Ra ≤ 0.6 µm (NO16) [1.] (ASME BPE SF6) [3.] (externally cast surface, electrically polished) [3.] Internally mechanically polished: Ra ≤ 0.76 µm (NO06) [1.] (ASME BPE SF3/DIN H2) (externally cast surface)
Safety setting in case of power failure	With the energy storage SAFEPOS energy-pack: open, closed or freely programmable position Without the energy storage SAFEPOS energy-pack: blocked in last position
Service life of energy storage SAFEPOS energy-pack	Up to 10 years (depending on operating conditions)
Controller variant	Positioner or process controller (option)
Performance data	
Closing time	AG2: 1.5...4.5 s AG3: 5.7...12.0 s (Depending on travel speed, stroke and operating conditions)
Travel speed	4 mm/s (for AG2 actuator force 2500 N) 3 mm/s (for AG3 actuator force 11500 N)
Dead band of the positioner	± 0.4 %

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Electrical data	
Operating voltage	24 V DC ± 10 % (maximum residual ripple 10 %)
Operating current [4.]	AG2: maximum 3 A (at maximum load and including 1 A charging current of the optional energy storage SAFEPOS energy-pack). At minimum operating temperature additionally 2 A AG3: maximum 5 A (at maximum load and including charging current of the optional energy storage SAFEPOS energy-pack). At minimum operating temperature additionally 6 A
Protection class (DIN EN 61140)	III
Duty cycle	100 %
Standby consumption [4.]	1...5 W
Communication and control	
Standard signal (analogue)	Set-point value: 0/4...20 mA, 0...5/10 V and binary input (further inputs and outputs optional, see "6.3. Electrical control unit and interfaces" on page 40)
Fieldbus (digital)	Bürkert system bus (büS) CANopen (optional) EtherNet/IP, PROFINET, Modbus TCP, EtherCAT (optional via integrated gateway)
Medium data	
Operating medium	Neutral gases and fluids, highly purified, sterile, aggressive or abrasive mediums (see **chemical resistance chart** ▶)
Medium temperature	
EPDM (AD) [1.]	- 10 °C...+ 143 °C (steam sterilisation [7.] max. + 150 °C for 60 min)
PTFE/EPDM (EA) [1.]	- 10 °C...+ 130 °C (steam sterilisation [7.] max. + 140 °C for 60 min)
Advanced PTFE/EPDM (EU) [1.]	- 5 °C...+ 143 °C (steam sterilisation [7.] max. + 150 °C for 60 min)
Laminate of GYLON® and EPDM (ER) [1.]	- 5 °C...+ 130 °C (steam sterilisation [7.] max. + 140 °C for 60 min)
Plastic body	See "3.2. Pressure temperature diagram for plastic valve body" on page 9
Product connections	
Port connection [2.]	
Nominal diameter	DN 06...DN 100 (⅛"... 4")
Stainless steel body [5.]	
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
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
Electrical connection	
Actuator	Terminal strip with cable gland (only AG2), 2 x M20 or 2 x M12 circular plugs, 5-pin and 8-pin
Fieldbus gateway	2 x M12 circular sockets, 4-pin (only with Industrial Ethernet) Further information can be found in chapter "5. Product connections" on page 31.
Approvals and conformities	
Further information can be found in chapter "2. Approvals and conformities" on page 7.	
Detergent resistance	According to Ecolab test method: F&E/P3-E No. 40 - 1

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Environment and installation	
Environmental factors	Protect the device from electromagnetic interference, UV radiation and, when used outdoors, from weather conditions.
Ambient temperature	- 10 °C...+ 65 °C [6.] (without display) - 10 °C...+ 60 °C [6.] (with display) - 10 °C...+ 55 °C [6.] (with the energy storage SAFEPOS energy-pack) For derating see "Operating limits for ambient and medium temperature" on page 38
Degree of protection	IP65/IP67 (DIN EN 60529), NEMA 4X
Installation position	As required, preferably with actuator upright

1.) This information is part of the product key (see "8.3. Bürkert Product Enquiry Form" on page 47).
2.) Other port connections are available on request.
3.) Only up to DN 50, not available for DN 65...100
3.) All values relate to a supply voltage of 24 V at + 25 °C.
5.) Tube valve body (VP) also available with flange and threaded connections
6.) Depends on medium temperature, see chapter "Operating limits for ambient and medium temperature" on page 38
7.) Extending the sterilisation time is permitted, but may affect the service life and maintenance intervals.

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2. Approvals and conformities

2.1. General notes

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

2.2. Conformity

In accordance with the EU 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
	Optional: Explosion protection (valid for the variable code PX48) As a Category 3 device suitable for Zone 2/22. **ATEX:** BVS 17 ATEX E 117 X II 3G Ex ec IIC T4 Gc II 3D Ex tc IIIC T135 °C Dc **IECEx:** IECEx BVS 17.0100X Ex ec IIC T4 Gc Ex tc IIIC T135 °C Dc

2.5. North America (USA/Canada)

Approval	Description
	Optional: Actuators UL Listed for the USA and Canada (valid for the variable code PU11) The actuators are UL Listed for the USA and Canada according to: • UL 61010-1 (ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL, AND LABORATORY USE – Part 1: General Requirements) • CAN/CSA-C22.2 No. 61010-1

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2.6. Food and beverage/hygiene

Conformity	Description
	**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.
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).

2.7. Others

Oxygen

Conformity	Description
O_2	**Optional: Suitability for oxygen (valid for the variable code NL02)** The products are suitable for use with gaseous oxygen, according to the manufacturer's declaration.

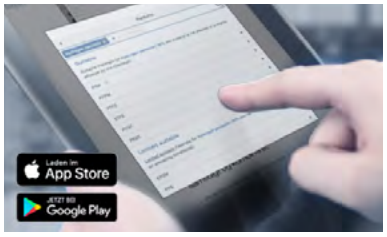
TA Luft

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

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3. Materials

3.1. Bürkert resistApp



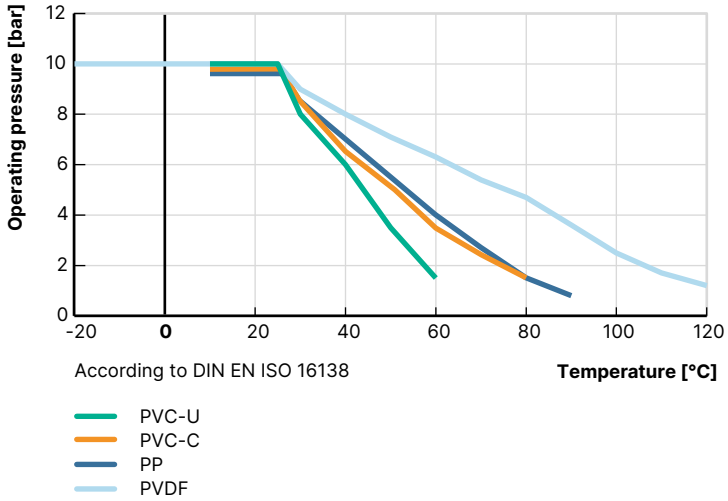
Bürkert resistApp – Chemical resistance chart

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

3.2. Pressure temperature diagram for plastic valve body

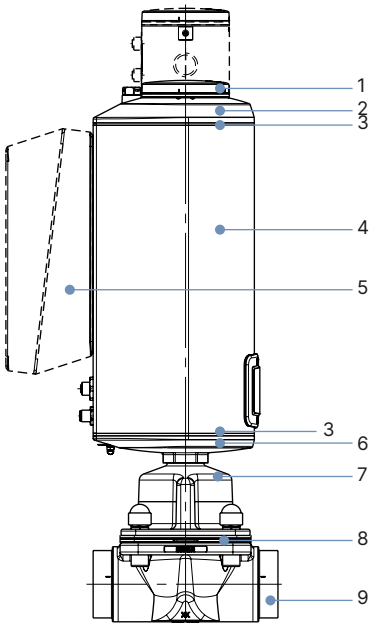
Note:
This information is important for material selection. Observe the permissible operating pressure depending on the medium temperature.



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3.3. Material specifications

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



AG2

No.	Component	Material
1	Display housing/blind cover	PPS (standard), stainless steel 1.4301 (for ATEX/IECEx)
2	Actuator cover	PPS
3	Seal	EPDM
4	Actuator housing	Powder-coated aluminium
6	Actuator base	PPS
7	Diaphragm bonnet	Stainless steel 1.4308
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 4

AG3

No.	Component	Material
1	Display housing/blind cover	PPS (standard), stainless steel 1.4301 (for ATEX/IECEx)
2	Actuator cover	PC
3	Seal	EPDM
4	Actuator housing	Powder-coated aluminium
5	Energy storage SAFEPOS energy-pack housing	PC
6	Actuator base	Stainless steel 1.4308
7	Diaphragm bonnet	Stainless steel 1.4470
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 4

3.4. 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)

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

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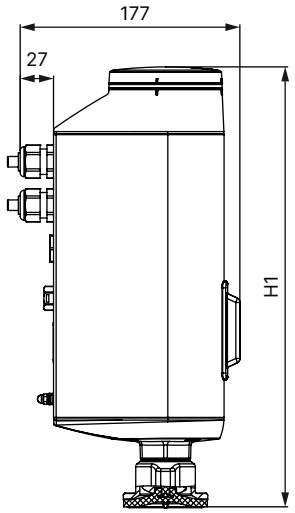
4. Dimensions

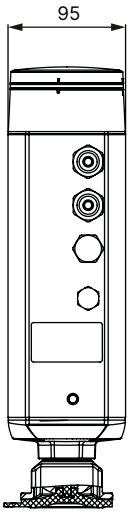
4.1. Actuator

AG2

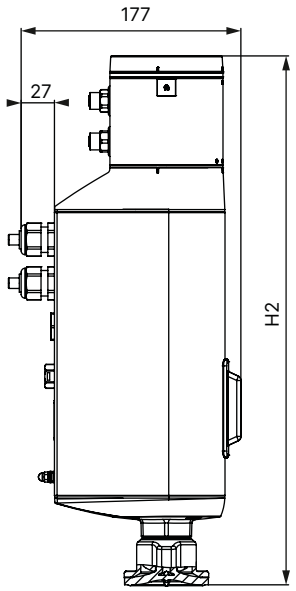
Note:
Dimensions in mm, unless otherwise stated

Standard with display or blind cover





With fieldbus interface



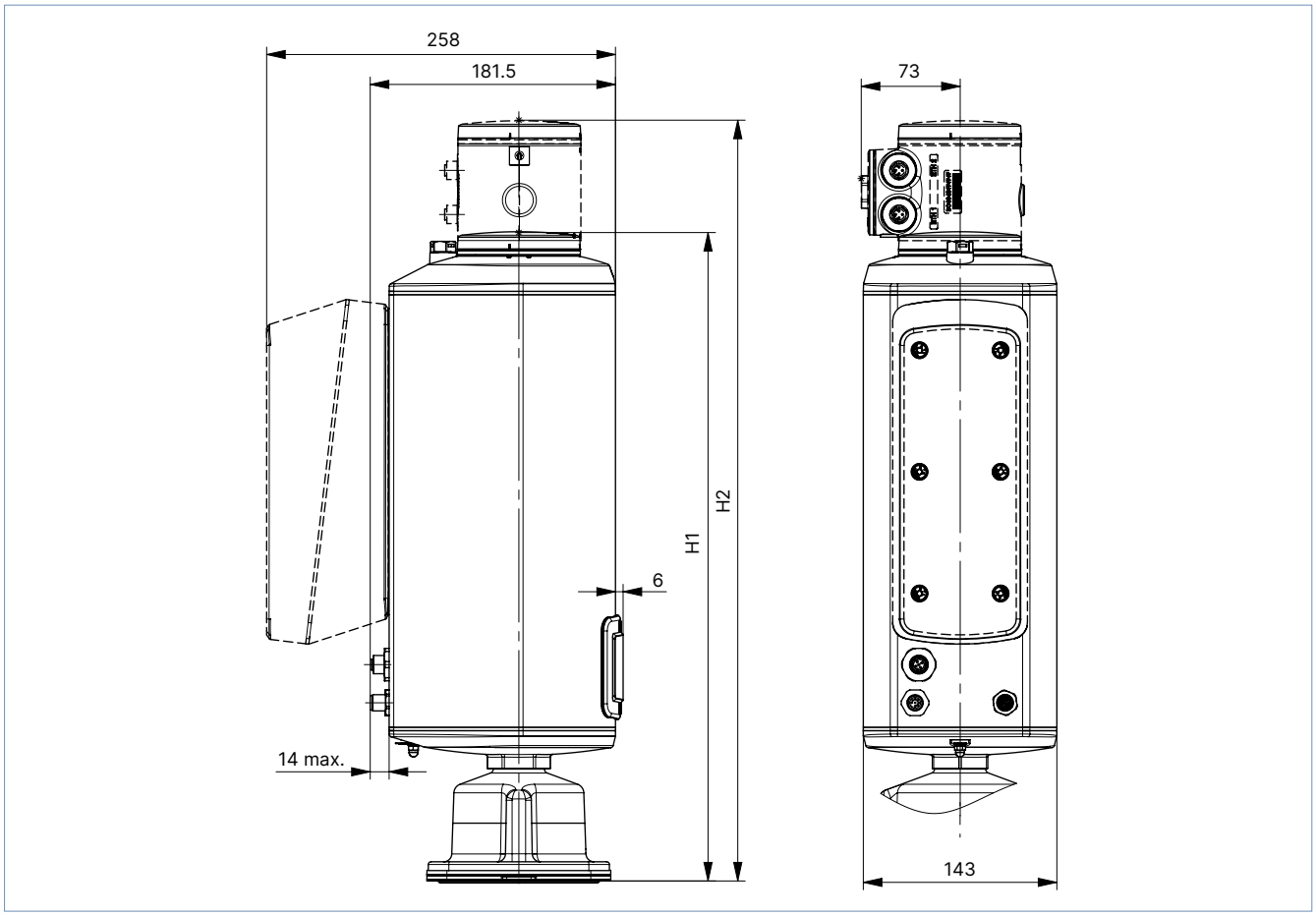
Diaphragm size	Height	
	H1 Standard variant	H2 [1.)] Fieldbus variant (KOMM ≠ G, N, L)
8	342	414
15	345	418
20	350	422
25	355	426
32	365	436
40	370	442

1.) Option: integrated fieldbus gateway

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AG3

Note:
Dimensions in mm, unless otherwise stated



Diaphragm size	Height	
	H1 Standard variant	H2 [1.)] Fieldbus variant (KOMM ≠ G, N, L)
40	452	523
50	462	533
65	477	548
80	479	550
100	482	553

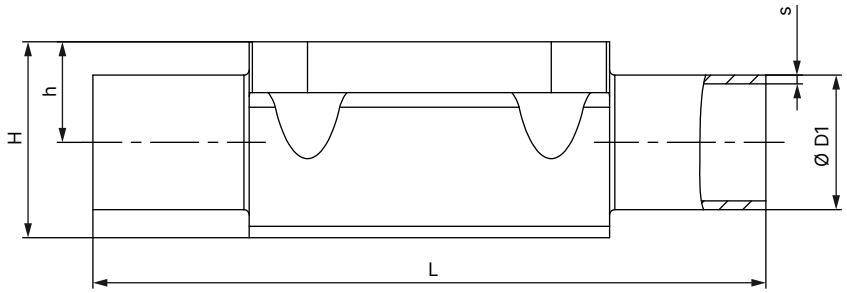
1.) Option: integrated fieldbus gateway

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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 information | Angles for self-draining of diaphragm valves" on our website under **"User Manuals", Type 3363** ▶.



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
80	65	76.1	2.0	250	51	98.1	SA48
80	80	88.9	2.3	250	51	98.1	SA49
100 [2.)]	100	114.3	2.3	295	63.5	127.0	SA39
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
80	65	70	2.0	250	51.0	98.1	SD48
80	80	85	2.0	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	Ø D1	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	8.15	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
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	1.20	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
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	37	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	1.0	90	5.7	15.2	SC41
8	8	10	1.0	90	5.7	15.2	SC42

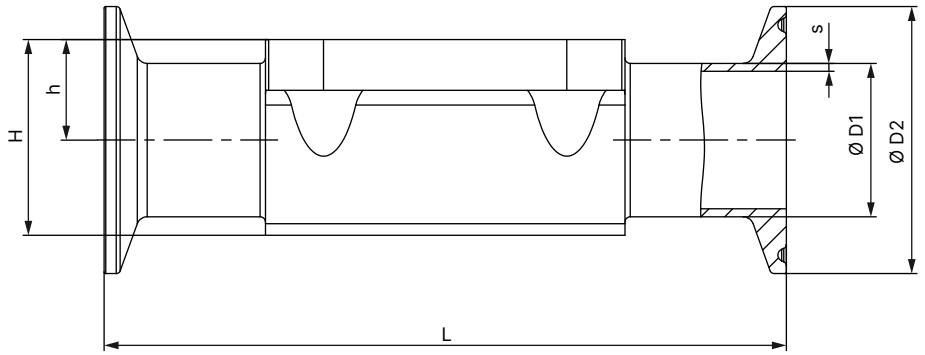
1.) This information is part of the product key (see "8.3. Bürkert Product Enquiry Form" on page 47).
2.) Only available as block material

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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 information | Angles for self-draining of diaphragm valves" on our website under **"User Manuals", Type 3363** ▶.



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)									
8	8	13.50	1.60	25.00	90.00	9.30	18.80	TC40	–
8	10	17.20	1.60	25.00	89.00	9.30	18.80	TC53	–
15	8	13.50	1.60	25.00	89.00	8.15	19.85	TC40	–
15	15	21.30	1.60	50.50	167.00	12.05	23.75	TC52	AF79
20	20	26.90	1.60	50.50	114.00	16.00	30.30	TC43	AF79+AG42
25	25	33.70	2.00	50.50	129.00	19.00	37.00	TC44	–
40	40	48.30	2.00	64.00	161.00	27.60	52.40	TC46	–
50	50	60.30	2.00	77.50	190.00	35.50	68.30	TC47	–
65	65	76.10	2.00	91.00	190.00	35.50	68.30	TC48	–
80	80	88.90	2.30	106.00	222.00	51.00	98.10	TC49	–
100 [2.]	100	114.30	2.30	130.00	350.00	63.50	127.00	TC50	–
DIN 32676 series A (DIN pipe)									
8	6	8.00	1.00	25.00	89.00	5.70	15.20	TD39	–
8	8	10.00	1.00	25.00	90.00	5.70	15.20	TD40	–
8	10	13.00	1.50	34.00	126.00	9.30	18.80	TD41	AF79
15	10	13.00	1.50	34.00	110.00	8.15	19.85	TD41	–
15	15	19.00	1.50	34.00	110.00	12.05	23.75	TD42	–
20	20	23.00	1.50	34.00	119.00	16.00	30.30	TD43	–
25	25	29.00	1.50	50.50	129.00	19.00	37.00	TD44	–
40	40	41.00	1.50	50.50	161.00	27.60	52.40	TD46	–
50	50	53.00	1.50	64.00	192.00	35.50	68.30	TD47	–
65	65	70.00	2.00	91.00	248.00	43.00	83.50	TD48	–
80	65	70.00	2.00	91.00	222.00	51.00	98.10	TD48	–

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Diaphragm size	Port connection DN	Ø D1	s	Ø D2	L	h	H	Product key [1.]	Variable code [1.]
ASME BPE									
8	¼"	6.35	0.89	25.00	64.50	5.70	15.20	TG50	–
8	⅜"	9.53	0.89	25.00	89.00	5.70	15.20	TG01	AF34
8	½"	12.70	1.65	25.00	64.00	9.30	18.80	TG02	–
8	½"	12.70	1.65	25.00	89.00	9.30	18.80	TG02	AF34
15	½"	12.70	1.65	25.00	89.00	8.15	19.85	TG02	–
15	½"	12.70	1.65	25.00	108.00	8.15	19.85	TG02	AF34
15	¾"	19.05	1.65	25.00	89.00	12.05	23.75	TG03	–
20	¾"	19.05	1.65	25.00	102.00	16.00	30.30	TG03	–
20	¾"	19.05	1.65	25.00	117.00	16.00	30.30	TG03	AF34
25	1"	25.40	1.65	50.50	114.00	19.00	37.00	TG04	–
25	1"	25.40	1.65	50.50	127.00	19.00	37.00	TG04	AF34
40	1½"	38.10	1.65	50.50	140.00	27.60	52.40	TG05	–
40	1½"	38.10	1.65	50.50	159.00	27.60	52.40	TG05	AF34
50	2"	50.80	1.65	64.00	159.00	35.50	68.30	TG06	–
50	2"	50.80	1.65	64.00	190.00	35.50	68.30	TG06	AF34
65	2½"	63.50	1.65	77.50	249.00	43.00	83.50	TG07	–
80	2½"	63.50	1.65	77.50	216.00	51.00	98.10	TG07	–
80	3"	76.20	1.65	91.00	222.00	51.00	98.10	TG08	–
100 [2.]	4"	101.60	2.11	119.00	306.00	63.50	127.00	TG09	–

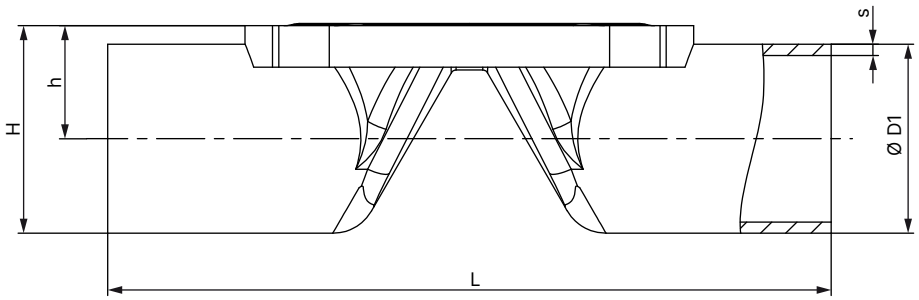
1.) This information is part of the product key (see "8.3. Bürkert Product Enquiry Form" on page 47).
2.) Only available as block material

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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 information | Angles for self-draining of diaphragm valves" on our website under **"User Manuals", Type 3363** ▶.



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	13.50	1.60	90.00	9.45	16.20	SA40
8	10	17.20	1.60	90.00	11.30	19.90	SA41
15	15	21.30	1.60	110.00	13.95	24.60	SA42
20	20	26.90	1.60	119.00	16.75	30.20	SA43
25	25	33.70	2.00	129.00	20.15	37.00	SA44
32	32	42.40	2.00	148.00	24.70	45.90	SA45
40	40	48.30	2.00	161.00	28.95	53.10	SA46
50	50	60.30	2.00	192.00	34.95	65.10	SA47
DIN 11850 series 2 / DIN 11866 series A / DIN EN 10357 series A							
8	10	13.00	1.50	90.00	9.45	16.00	SD40
15	15	19.00	1.50	110.00	12.80	22.30	SD42
15	20	23.00	1.50	119.00	14.80	26.30	SD43
20	25	29.00	1.50	129.00	17.80	32.30	SD44
25	32	35.00	1.50	148.00	20.80	38.30	SD45
32	40	41.00	1.50	161.00	24.00	44.50	SD46
40	50	53.00	1.50	192.00	31.30	57.80	SD47
ASME BPE / DIN 11866 series C							
8	½"	12.70	1.65	90.00	9.05	15.40	SA92
15	¾"	19.05	1.65	117.00	12.83	22.35	SA93
20	1"	25.40	1.65	127.00	16.00	28.70	SODF
32	1½"	38.10	1.65	159.00	22.55	41.60	SODH
40	2"	50.80	1.65	190.00	30.20	55.60	SODI
50	2½"	63.50	1.65	192.00	36.75	68.50	SODJ
65	3"	76.20	1.65	250.00	46.30	84.40	SODK
80	4"	101.60	2.11	295.00	60.00	110.80	SODL

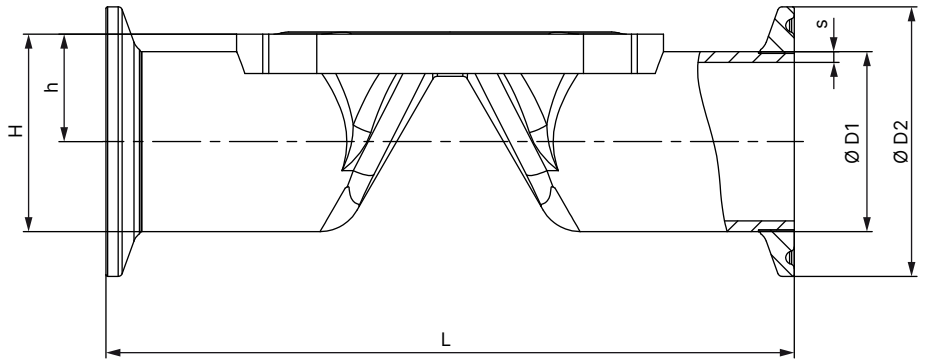
1.) This information is part of the product key (see "8.3. Bürkert Product Enquiry Form" on page 47).

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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 information | Angles for self-draining of diaphragm valves" on our website under **"User Manuals", Type 3363** ▶.



Diaphragm size	Port connection DN	Ø D1	s	Ø D2	L	h	H	Product key[1.)]
DIN 32676 series B (ISO pipe)								
8	8	13.50	1.60	25.00	89.00	9.45	16.20	TC40
8	10	17.20	1.60	25.00	89.00	11.30	19.90	TC53
15	15	21.30	1.60	50.50	110.00	13.95	24.60	TC52
20	20	26.90	1.60	50.50	119.00	16.75	30.20	TC43
25	25	33.70	2.00	50.50	129.00	20.15	37.00	TC44
32	32	42.40	2.00	64.00	148.00	24.70	45.90	TC55
40	40	48.30	2.00	64.00	161.00	28.95	53.10	TC46
50	50	60.30	2.00	77.50	192.00	34.95	65.10	TC47
DIN 32676 series A (DIN pipe)								
8	10	13.00	1.50	34.00	89.00	9.45	16.00	TD41
15	15	19.00	1.50	34.00	110.00	12.80	22.30	TD42
15	20	23.00	1.50	34.00	119.00	14.80	26.30	TD43
20	25	29.00	1.50	50.50	129.00	17.80	32.30	TD44
25	32	35.00	1.50	50.50	148.00	20.80	38.30	TD45
32	40	41.00	1.50	50.50	161.00	24.00	44.50	TD46
40	50	53.00	1.50	64.00	192.00	31.30	57.80	TD47
ASME BPE								
8	½"	12.70	1.65	25.00	89.00	9.05	15.40	TG02
15	¾"	19.05	1.65	25.00	102.00	12.83	22.35	TG03
20	1"	25.40	1.65	50.50	114.00	16.00	28.70	TG04
32	1½"	38.10	1.65	50.50	140.00	22.55	41.60	TG05
40	2"	50.80	1.65	64.00	159.00	30.20	55.60	TG06
50	2½"	63.50	1.65	77.50	190.00	36.75	68.50	TG07

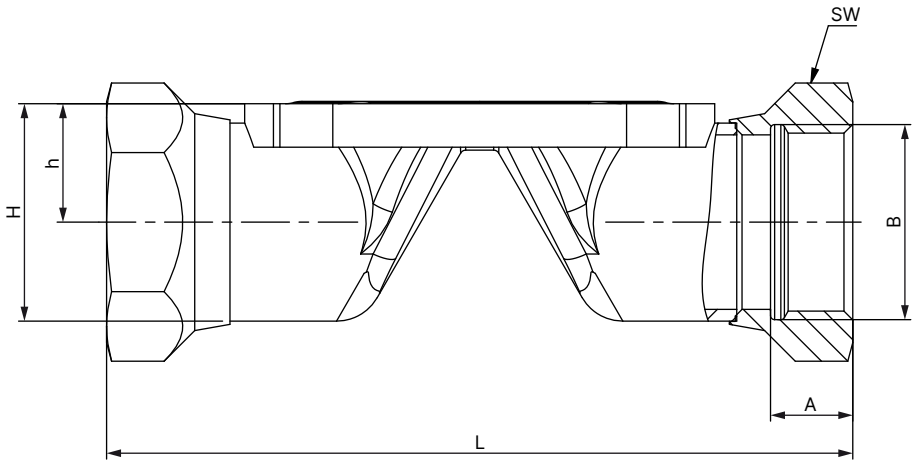
1.) This information is part of the product key (see "8.3. Bürkert Product Enquiry Form" on page 47).

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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 information | Angles for self-draining of diaphragm valves" on our website under **"User Manuals", Type 3363** ▶.



Diaphragm size	L	A	B	h	H	Socket width across flats	Product key [1.]
8	85.00	8.00	G ¼	9.45	16.20	17	GM82
15	102.00	14.00	G ½	13.95	24.60	27	GM84
20	118.00	12.00	G ¾	16.75	30.20	32	GM85
25	127.00	14.00	G 1	20.15	37.00	41	GM86
32	146.00	16.00	G 1¼	24.70	45.90	50	GM87
40	159.00	18.00	G 1½	28.95	53.10	60	GM88
50	191.00	20.00	G 2	34.95	65.10	70	GM89
Diaphragm size	**L**	**A**	B	**h**	**H**	**Socket width across flats**	**Product key [1.]**
8	85.00	9.70	Rc ¼	9.45	16.20	17	Rc 82
15	102.00	13.20	Rc ½	13.95	24.60	27	Rc 84
20	118.00	14.50	Rc ¾	16.75	30.20	32	Rc 85
25	127.00	16.80	Rc 1	20.15	37.00	41	Rc 86
32	146.00	19.10	Rc 1¼	24.70	45.90	50	Rc 87
40	159.00	19.10	Rc 1½	28.95	53.10	60	Rc 88
50	191.00	23.40	Rc 2	34.95	65.10	70	Rc 89
Diaphragm size	**L**	**A**	B	**h**	**H**	**Socket width across flats**	**Product key [1.]**
8	85.00	10.00	NPT ¼	9.45	16.20	17	NM82
15	102.00	13.70	NPT ½	13.95	24.60	27	NM84
20	118.00	14.00	NPT ¾	16.75	30.20	32	NM85
25	127.00	16.80	NPT 1	20.15	37.00	41	NM86
32	146.00	17.30	NPT 1¼	24.70	45.90	50	NM87
40	159.00	17.30	NPT 1½	28.95	53.10	60	NM88
50	191.00	17.60	NPT 2	34.95	65.10	70	NM89

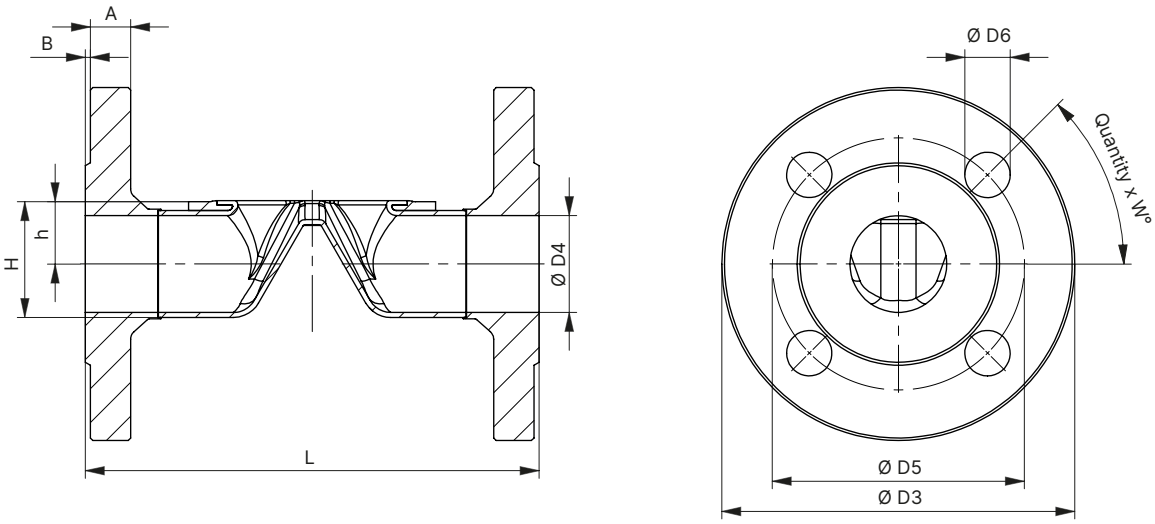
1.) This information is part of the product key (see "8.3. Bürkert Product Enquiry Form" on page 47).

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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 information | Angles for self-draining of diaphragm valves" on our website under **"User Manuals", Type 3363** ▶.



Diaphragm size	L4	L3	s	ØD9	ØD6	ØD7	a°	ØDB	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
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

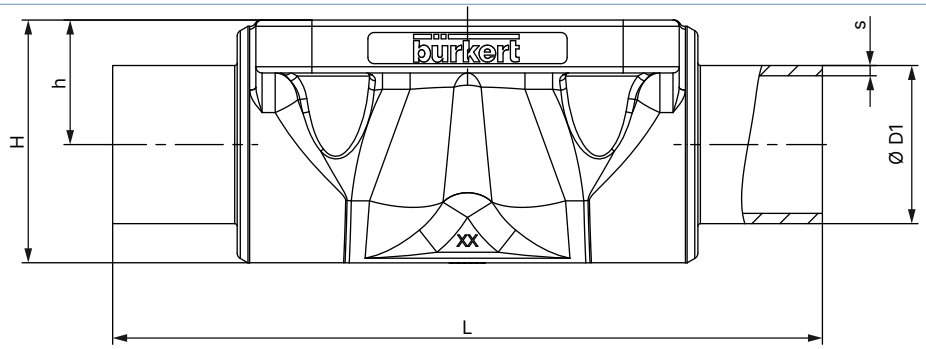
1.) This information is part of the product key (see "8.3. Bürkert Product Enquiry Form" on page 47).

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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 information | Angles for self-draining of diaphragm valves" on our website under **"User Manuals", Type 3363** ▶.



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
65	65	76.1	2.0	192	43.0	82.0	SA48
80	80	76.1	2.0	250	51.0	101.0	SA48
80	80	88.9	2.3	250	51.0	101.0	SA49
100	100	114.3	2.3	295	63.5	123.5	SA39
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
65	65	70	2.0	192	43.0	82.0	SD48
80	80	85	2.0	250	51.0	101.0	SD49
100	100	104	2.0	295	63.5	123.5	SD50
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
65	2½"	63.5	1.65	192	43.0	82.0	SODJ
80	3"	76.2	1.65	250	51.0	101.0	SODK
100	4"	101.6	2.11	295	63.5	123.5	SODL

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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	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
65	65	63.5	1.65	192	43.0	82.0	SODJ
80	80	76.2	1.65	250	51.0	101.0	SODK
100	100	101.6	2.11	295	63.5	123.5	SODL
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

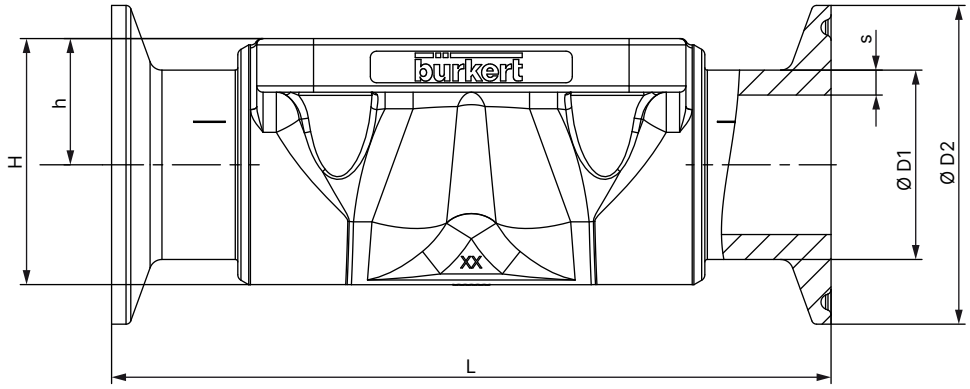
1.) This information is part of the product key (see "8.3. Bürkert Product Enquiry Form" on page 47).

DTS 1000305874 EN Version: A Status: RL (released | freigegeben | valide) printed: 28.10.2026

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 information | Angles for self-draining of diaphragm valves" on our website under **"User Manuals", Type 3363** ▶.



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
65	2½"	63.5	1.65	77.5	249.2	43.0	82.0	TG07
80	3"	76.2	1.65	91	306.2	51.0	101.0	TG08
100	4"	101.6	2.11	119	352.2	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	25.0	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 to DIN 32676 series B (ISO pipe)								
15	15	21.3	1.6	34	110	13.5	25.0	TC42

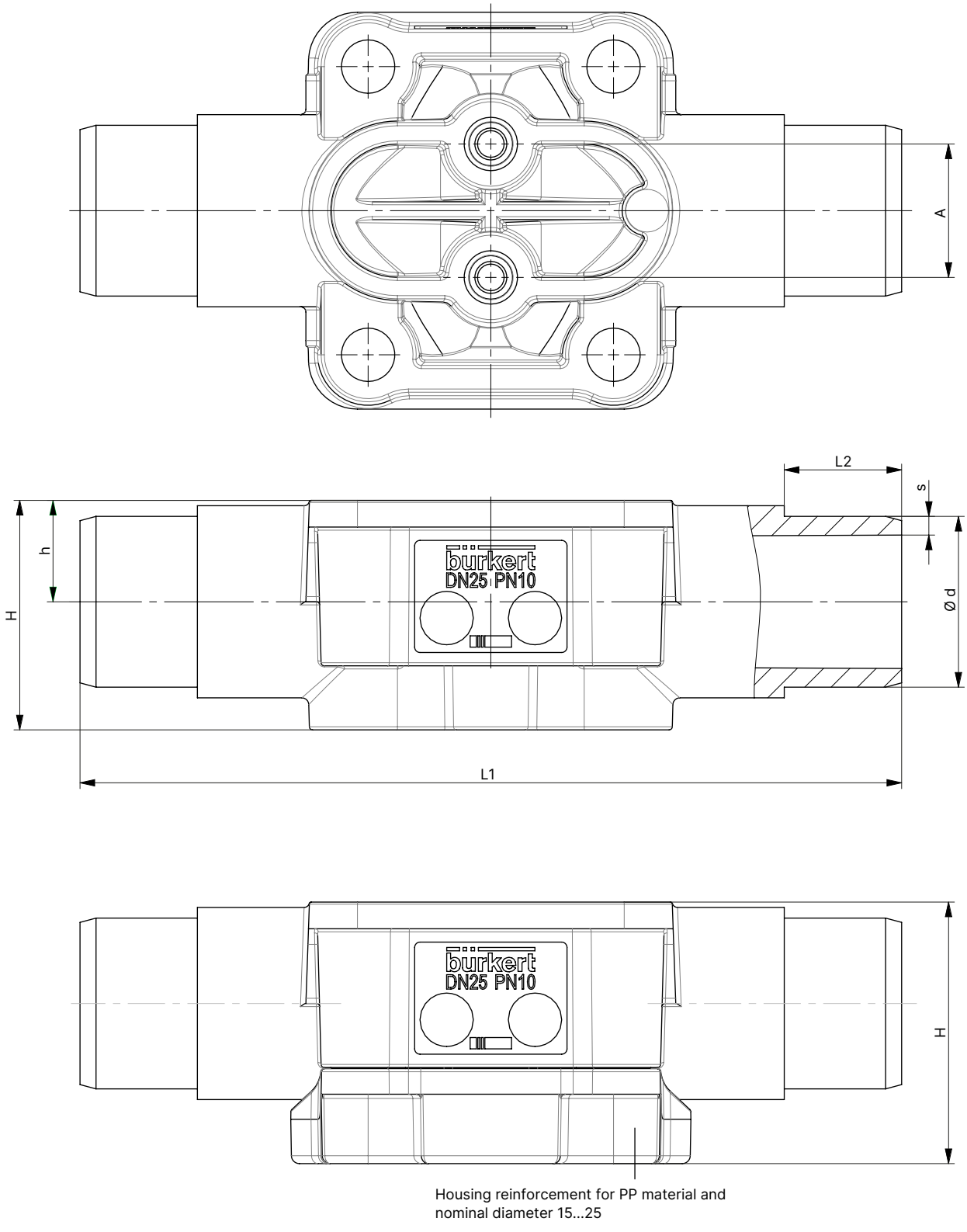
1.) This information is part of the product key (see "8.3. Bürkert Product Enquiry Form" on page 47).

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

Note:

- Dimensions in mm. unless otherwise stated
- The specified values refer to the new plastic valve body. The previous bodies (REV.1) may differ slightly from the new dimensions.



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Diaphragm size	A	L1	L2	Ø d	s	h	H	Product key [1.)]
PP (PP)								
15	25	124	16	20	2.5	12	33	SS25
20	25	144	19	25	2.5	17	42	SS26
25	25	154	22	32	3.5	19	49	SS27
32	45	174	26	40	4	25	52.5	SS28
40	45	194	31	50	5	28.6	65.5	SS29
50	45	224	44	63	6.5	35.5	79	SS30
PVDF (PD)								
15	25	124	16	20	2.5	12	29	SS25
20	25	144	19	25	2.5	17	36	SS26
25	25	154	22	32	3.5	19	43	SS27
32	45	174	26	40	4	25	52.5	SS28
40	45	194	31	50	5	28.6	65.5	SS29
50	45	224	44	63	6.5	35.5	79	SS30
PVC-U (PV)								
15	25	124	16	20	2.5	12	26	KS25
20	25	144	19	25	2.5	17	36	KS26
25	25	154	22	32	3.5	19	43	KS27
32	45	174	26	40	4	25	52.5	KS28
40	45	194	31	50	5	28.6	65.5	KS29
50	45	224	44	63	6.5	35.5	79	KS30

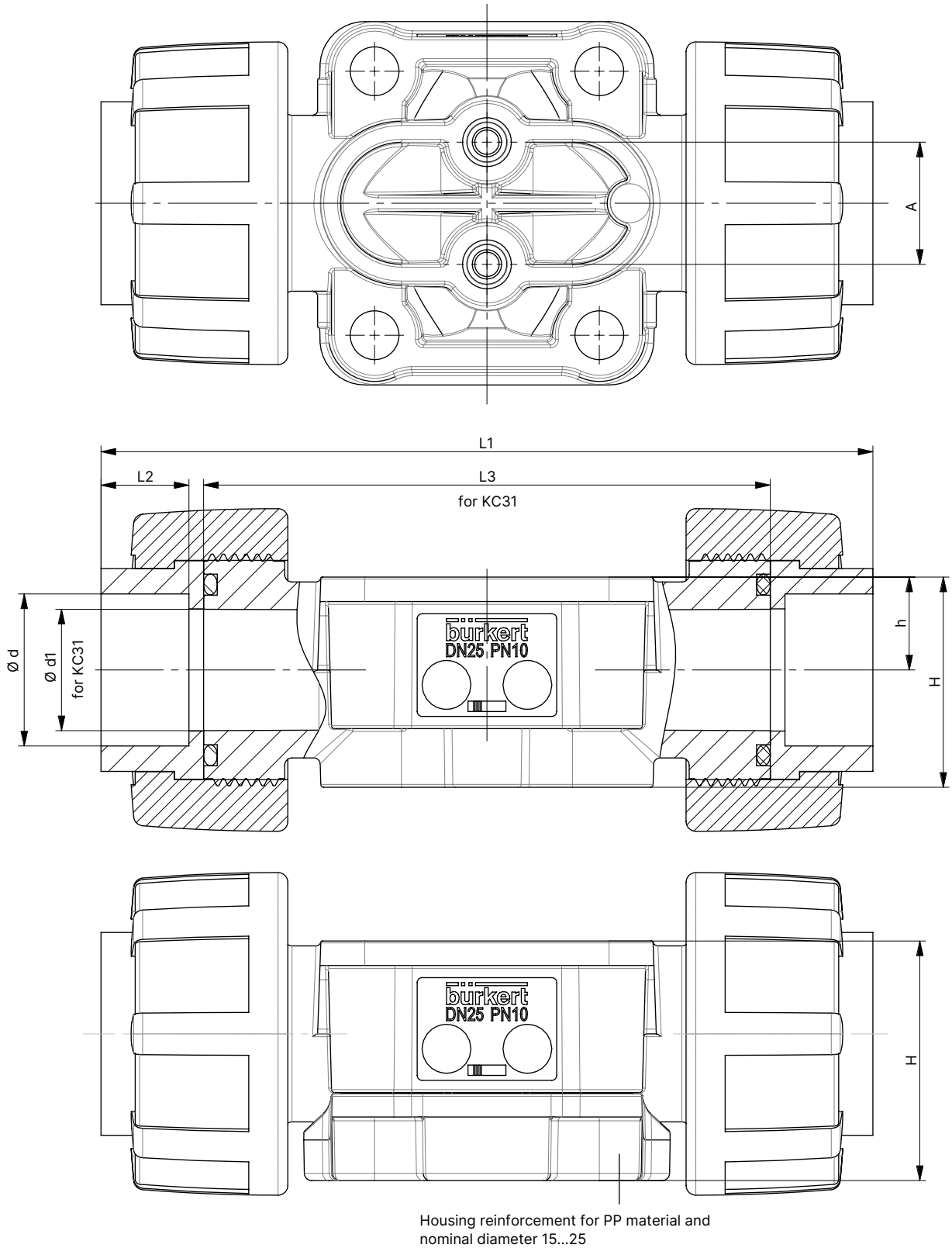
1.) This information is part of the product key (see "8.3. Bürkert Product Enquiry Form" on page 47).

DTS 1000305874 EN Version: A Status: RL (released | freigegeben | valide) printed: 28.10.2026

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

Note:

- Dimensions in mm. unless otherwise stated
- The specified values refer to the new plastic valve body. The previous bodies (REV.1) may differ slightly from the new dimensions.



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Diaphragm size	A	L1	L2	L3	Ø d	Ø d1	h	H	Product key [1)]	Variable code
PP (PP)										
15	25	125	14.5	–	19.2	–	12	33	SM25	–
20	25	146	16	–	24.2	–	17	42	SM26	
25	25	158	18	–	31.1	–	19	49	SM27	
32	45	181	20.5	–	39	–	25	52.5	SM28	
40	45	207	23.5	–	48.9	–	28.6	65.5	SM29	
50	45	245	27.5	–	61.6	–	35.5	79	SM30	
15	25	–	–	90	–	14.9	12	33	SM25	KC31 port connection without insert, O-ring and union nut
20	25	–	–	108	–	19.9	17	42	SM26	
25	25	–	–	116	–	24.9	19	49	SM27	
32	45	–	–	134	–	31.9	25	52.5	SM28	
40	45	–	–	154	–	39.9	28.6	65.5	SM29	
50	45	–	–	184	–	49.9	35.5	79	SM30	
15	25	132	18	–	20	–	12	33	KM25	Optionally available with variable code KC93 insert made of PVC-C
20	25	156	21	–	25	–	17	42	KM26	
25	25	170	24	–	32	–	19	49	KM27	
32	45	196	28	–	40	–	25	52.5	KM28	
40	45	222	31	–	50	–	28.6	65.5	KM29	
50	45	266	38	–	63	–	35.5	79	KM30	
PVDF (PD)										
15	25	125	14.5	–	19.2	–	12	29	SM25	–
20	25	146	16	–	24.2	–	17	36	SM26	
25	25	158	18	–	31.1	–	19	43	SM27	
32	45	181	20.5	–	39	–	25	52.5	SM28	
40	45	207	23.5	–	48.9	–	28.6	65.5	SM29	
50	45	245	27.5	–	61.6	–	35.5	79	SM30	
15	25	–	–	90	–	14.9	12	29	SM25	KC31 port connection without insert, O-ring and union nut
20	25	–	–	108	–	19.9	17	36	SM26	
25	25	–	–	116	–	24.9	19	43	SM27	
32	45	–	–	134	–	31.9	25	52.5	SM28	
40	45	–	–	154	–	39.9	28.6	65.5	SM29	
50	45	–	–	184	–	49.9	35.5	79	SM30	
15	25	132	18	–	20	–	12	29	KM25	Optionally available with variable code KC93 insert made of PVC-C
20	25	156	21	–	25	–	17	36	KM26	
25	25	170	24	–	32	–	19	43	KM27	
32	45	196	28	–	40	–	25	52.5	KM28	
40	45	222	31	–	50	–	28.6	65.5	KM29	
50	45	266	38	–	63	–	35.5	79	KM30	

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Diaphragm size	A	L1	L2	L3	Ø d	Ø d1	h	H	Product key [1)]	Variable code
PVC-U (PV)										
15	25	128	16	–	20	–	12	26	KM25	–
20	25	152	19	–	25	–	17	36	KM26	
25	25	166	22	–	32	–	19	43	KM27	
32	45	192	26	–	40	–	25	52.5	KM28	
40	45	222	31	–	50	–	28.6	65.5	KM29	
50	45	266	38	–	63	–	35.5	79	KM30	
15	25	–	–	90	–	14.9	12	29	KM25	KC31 port connection without insert, O-ring and union nut
20	25	–	–	108	–	19.9	17	36	KM26	
25	25	–	–	116	–	24.9	19	43	KM27	
32	45	–	–	134	–	31.9	25	52.5	KM28	
40	45	–	–	154	–	39.9	28.6	65.5	KM29	
50	45	–	–	184	–	49.9	35.5	79	KM30	
15	25	140.6	22.3	–	21.5	–	12	29	KM41	–
20	25	164.8	25.4	–	26.7	–	17	36	KM42	
25	25	179.2	28.6	–	33.5	–	19	43	KM43	
32	45	203.6	31.8	–	42.3	–	25	52.5	KM44	
40	45	230	35	–	48.6	–	28.6	65.5	KM45	
50	45	266.2	38.1	–	60.6	–	35.5	79	KM46	
PVC-C (PW)										
15	25	–	–	90	–	14.9	12	26	KM25	KC31 port connection without insert, O-ring and union nut
20	25	–	–	108	–	19.9	17	36	KM26	
25	25	–	–	116	–	24.9	19	43	KM27	
32	45	–	–	134	–	31.9	25	52.5	KM28	
40	45	–	–	154	–	39.9	28.6	65.5	KM29	
50	45	–	–	184	–	49.9	35.5	79	KM30	
15	25	132	18	–	20	–	12	29	KM25	–
20	25	156	21	–	25	–	17	36	KM26	
25	25	170	24	–	32	–	19	43	KM27	
32	45	196	28	–	40	–	25	52.5	KM28	
40	45	222	31	–	50	–	28.6	65.5	KM29	
50	45	266	38	–	63	–	35.5	79	KM30	

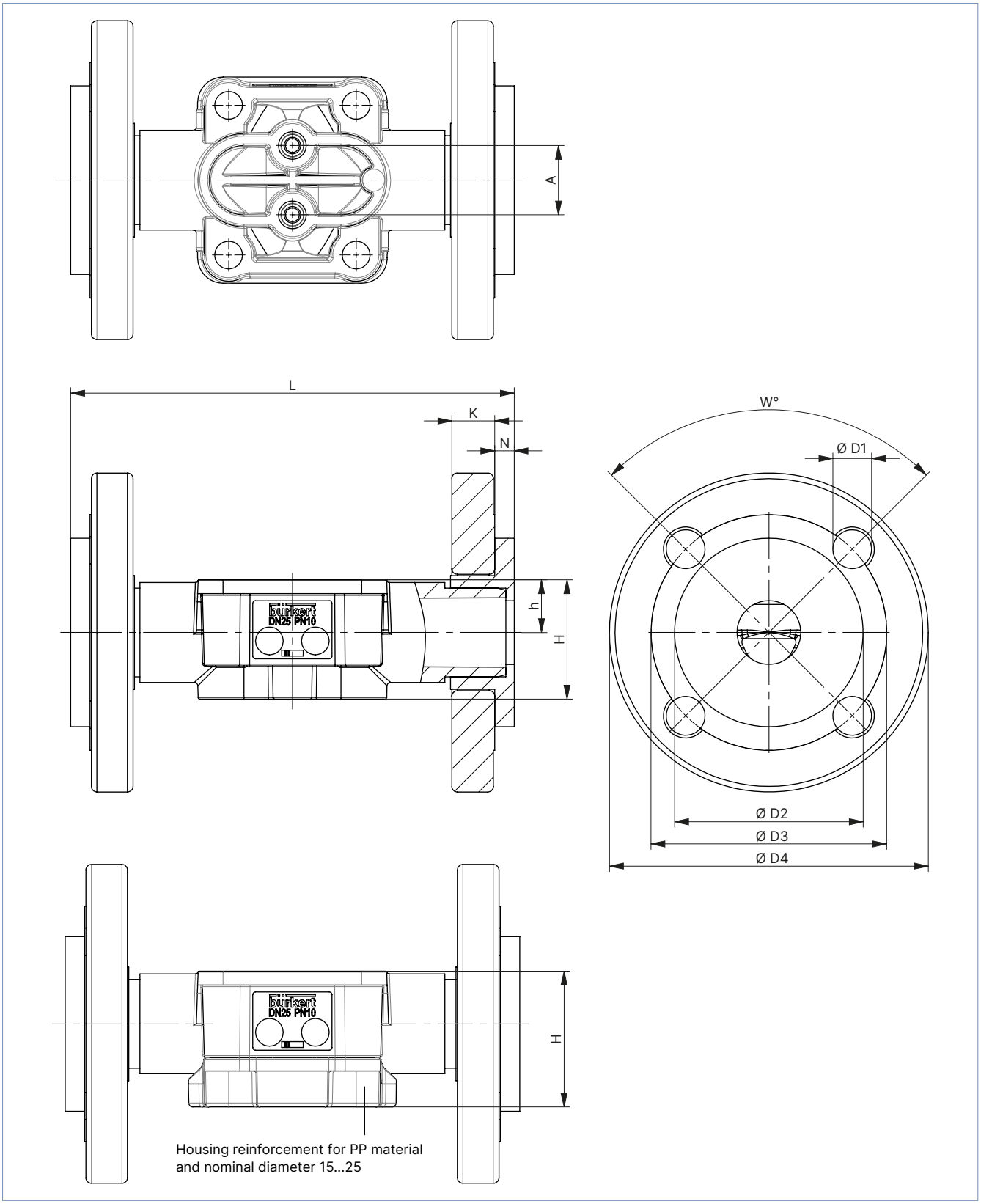
1.) This information is part of the product key (see "8.3. Bürkert Product Enquiry Form" on page 47).

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

Note:

- Dimensions in mm. unless otherwise stated
- The specified values refer to the new plastic valve body. The previous bodies (REV.1) may differ slightly from the new dimensions.



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Diaphragm size	A	L	K	N	h	H	W°	Ø D1	Ø D2	Ø D3	Ø D4	Product key [1.)]
PP (PP)												
15	25	134	13.5	7	12	33	90	4×14	45	65	95	FL24
20	25	154	14.5	7	17	42	90	4×14	54	75	105	FL25
25	25	164	15.5	7	19	49	90	4×14	63	85	115	FL26
32	45	184	17.5	8	25	52.5	90	4×18	73	100	140	FL27
40	45	204	17.5	8	28.6	65.5	90	4×18	82	110	150	FL28
50	45	234	19.5	14	35.5	79	90	4×18	102	125	166	FL29
65	72	290	19	–	47	93	90	4×17.5	106	144	185	FL30
80	120	310	36	–	50	107	45	8×18	–	160	200	FF31
100	120	350	35	–	65.5	134.5	45	8×18	–	180	225	FF32
PVDF (PD)												
15	25	130	13.5	6	12	29	90	4×14	45	65	95	FL24
20	25	150	14.5	7	17	36	90	4×14	58	75	105	FL25
25	25	160	15.5	7	19	43	90	4×14	68	85	115	FL26
32	45	180	17.5	8	25	52.5	90	4×18	78	100	140	FL27
40	45	200	17.5	8	28.6	65.5	90	4×18	88	110	150	FL28
50	45	230	19.5	9	35.5	79	90	4×18	102	125	166	FL29
65	72	290	19	–	47	93	90	4×17.5	106	144	185	FL30
80	120	310	36	–	50	107	45	8×18	–	160	200	FF31
100	120	350	35	–	65.5	134.5	45	8×18	–	180	225	FF32
PVC-U (PV)												
15	25	130	13.5	6	12	29	90	4×14	34	65	95	FL24
20	25	150	14.5	7	17	36	90	4×14	41	75	105	FL25
25	25	160	15.5	7	19	43	90	4×14	50	85	115	FL26
32	45	180	17.5	8	25	52.5	90	4×18	61	100	140	FL27
40	45	200	17.5	8	28.6	65.5	90	4×18	73	110	150	FL28
50	45	230	19.5	9	35.5	79	90	4×18	90	125	166	FL29
65	72	290	19	–	47	93	90	4×17.5	106	144	185	FL30
80	120	310	36	–	50	107	45	8×18	–	160	200	FF31
100	120	350	35	–	65.5	134.5	45	8×18	–	180	225	FF32

1.) This information is part of the product key (see "8.3. Bürkert Product Enquiry Form" on page 47).

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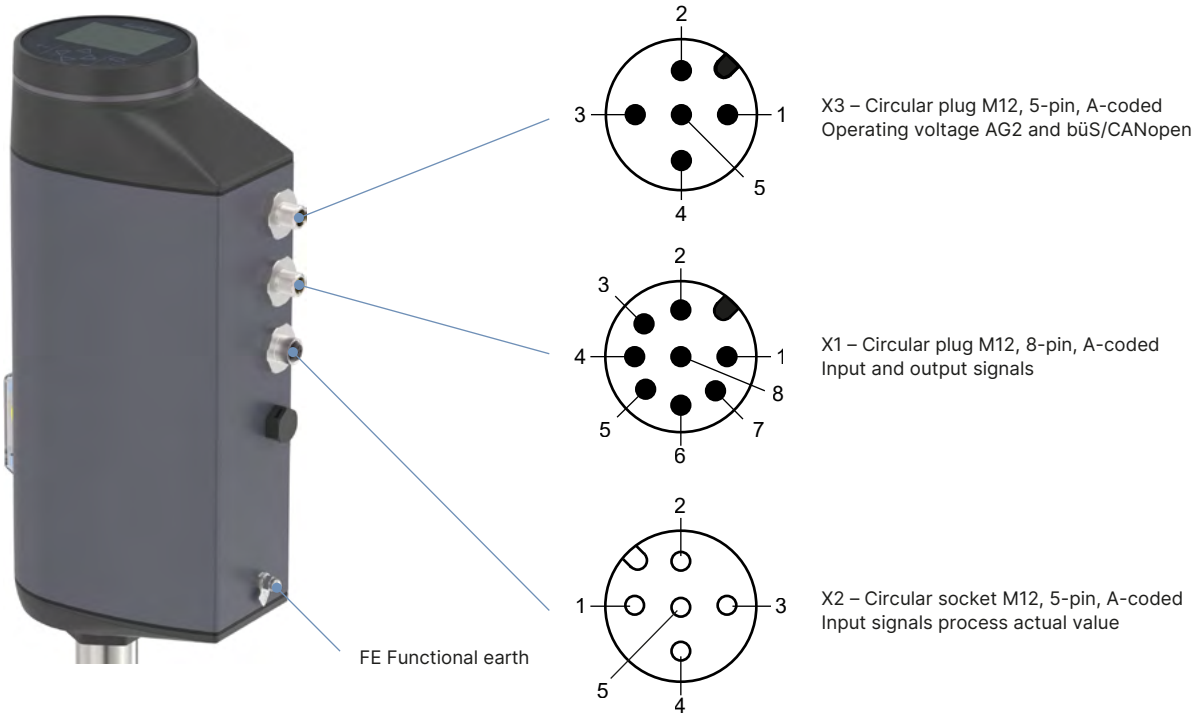
5. Product connections

5.1. Electrical connection

Note:
For the terminal assignment of the connection variant “cable gland with connection terminals”, see **operating instructions Type 3363 ▶**.

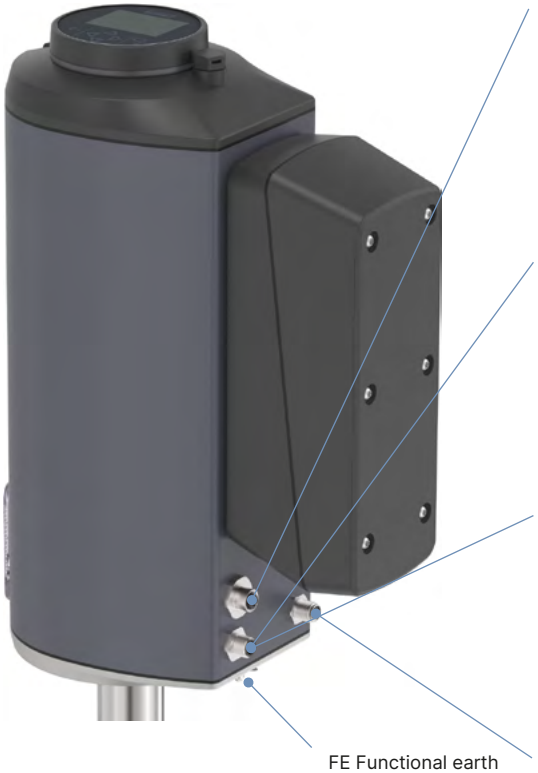
Description of circular plug-in connectors

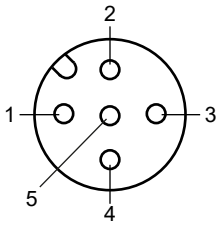
AG2 variant



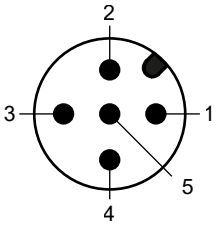
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AG3 variant

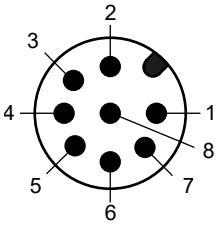




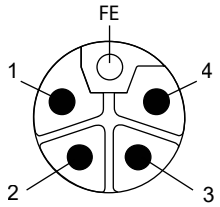
X2 – Circular socket M12, 5-pin, A-coded
Input signals process actual value



X3 – Circular plug M12, 5-pin, A-coded
büS/CANopen



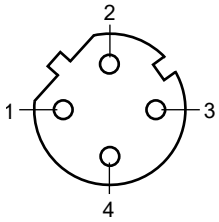
X1 – Circular plug M12, 8-pin, A-coded
Input and output signals



X4 – Circular plug M12, 5-pin, L-coded
Actuator supply AG3

Fieldbus gateway (optional)





X7 – M12 round socket, 4-pin, D-coded,
fieldbus connection (2-port Ethernet switch)

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The following circular plug-in connectors are used depending on the device variant:

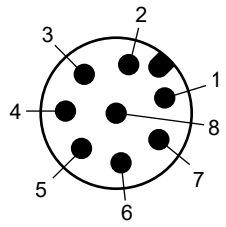
Circular plug-in connector	AG2			AG3		
	Electrical variant			Electrical variant		
	Analogue (büS service interface)	With fieldbus gateway	büS/CANopen	Analogue (büS service interface)	With fieldbus gateway	büS/CANopen
	0...10 V 0...5 V 4...20 mA, 0...20 mA adjustable	for EtherNet/IP, PROFINET, Modbus TCP, EtherCAT protocols		0...10 V 0...5 V 4...20 mA 0...20 mA adjustable	for EtherNet/IP, PROFINET, Modbus TCP, EtherCAT protocols	
X1	X	–	–	X	–	–
X2 [1.]	X [1.]	X [1.]	X [1.]	X [1.]	X [1.]	X [1.]
X3	X	X	X	–	X	X
X4	–	–	–	X	X	X
X7	–	X	–	–	X	–

1.) Optional, only for devices with process controller function
X = available
– = not available

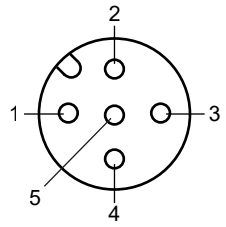
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Circular plug-in connector with pin assignment

Input and output signals

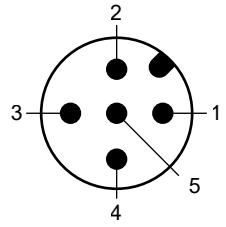
X1 – Circular plug M12, 8-pin, A-coded	Pin	Assignment
	**1**	Digital input +
	2	GND for digital input and digital outputs
	3	Digital output 2 +
	4	Digital output 1 +
	5	Analogue output -
	6	Analogue output +
	7	Set-point value / Analogue input -
	8	Set-point value / Analogue input +

Input signal process actual value (4..20 mA, frequency, PT100) (Only for devices with process controller function)

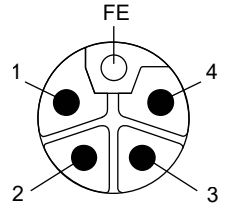
X2 – Circular socket M12, 5-pin, A-coded	Pin	Assignment for signal type 4..20 mA, sensor supplied externally [1.)]
	**1**	Do not connect
	2	Do not connect
	3	Do not connect
	4	Process actual value / 4..20 mA
	5	Process actual value / 4..20 mA GND

1.) Further signal types (frequency, PT100) are possible. For further information see **operating instructions Type 3363** ▸.

Operating voltage AG2 and büS/CANopen

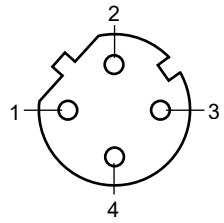
X3 – Circular plug M12, 5-pin, A-coded	Pin	Assignment
	**1**	CAN Shield / shield
	2	Operating voltage 24 V DC ± 10 %
	3	GND / CAN_GND
	4	CAN_H
	5	CAN_L

Operating voltage AG3

X4 – Circular plug M12, 5-pin, L-coded	Pin	Assignment
	**1**	Operating voltage 24 V DC ± 10 %
	2	Do not connect
	3	GND
	4	Do not connect
	FE	Functional earth, connected to housing

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Fieldbus connection

X7 – Circular socket M12, 4-pin, D-coded	Pin	Assignment
	**1**	Transmit +
	2	Receive +
	3	Transmit -
	4	Receive -

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6. Performance specifications

6.1. Fluidic data

Flow characteristics

Note:

- The K_V values may vary slightly for 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 water					
			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	6	⅛	–	–	–	1.1	–	–
8	8	¼	1.5	–	0.7	1.7	0.5	–
8	10	⅜	1.5	1.5	1.6	–	1.4	–
8	15	½	–	–	1.5	–	–	–
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	–	–	70	–	70	70
65	65	2½	110	110	110	–	–	–
80	65	2½	–	150	–	–	–	–
80	80	3	175	175	180	–	–	–
100	100	4	235	240	235	–	–	–

Tube valve body (VP)

Diaphragm size	Port connection		K_V value water		
			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	–	1.9	–
8	15	½	–	–	1.8
15	10	⅜	–	–	7.1
15	15	½	7.2	7.4	–
15	20	¾	–	7.4	–
20	20	¾	13.5	–	–
20	25	1	–	14.9	12.8
25	32	1¼	–	22.3	–
25	25	1	20.8	–	–
32	40	1½	–	34.8	31
40	40	1½	47.9	–	–
40	50	2	–	46.2	43
50	50	2	60	–	60
65	80	3	–	–	85
80	100	4	–	–	145

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Cast valve body (VG)

Diaphragm size	Port connection		K_V value water
	[mm]	[inch]	[m³/h]
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	Seal material	Port connection		K_V value	
				Previous plastic valve body Product key REV.1	New plastic valve body
		[mm]	[inch]	[m³/h]	
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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6.2. Operating limits

Note:
For device variants with approvals or conformities, deviating technical operating limits (temperature, pressure) may apply. Refer to the corresponding approval-related documentation.

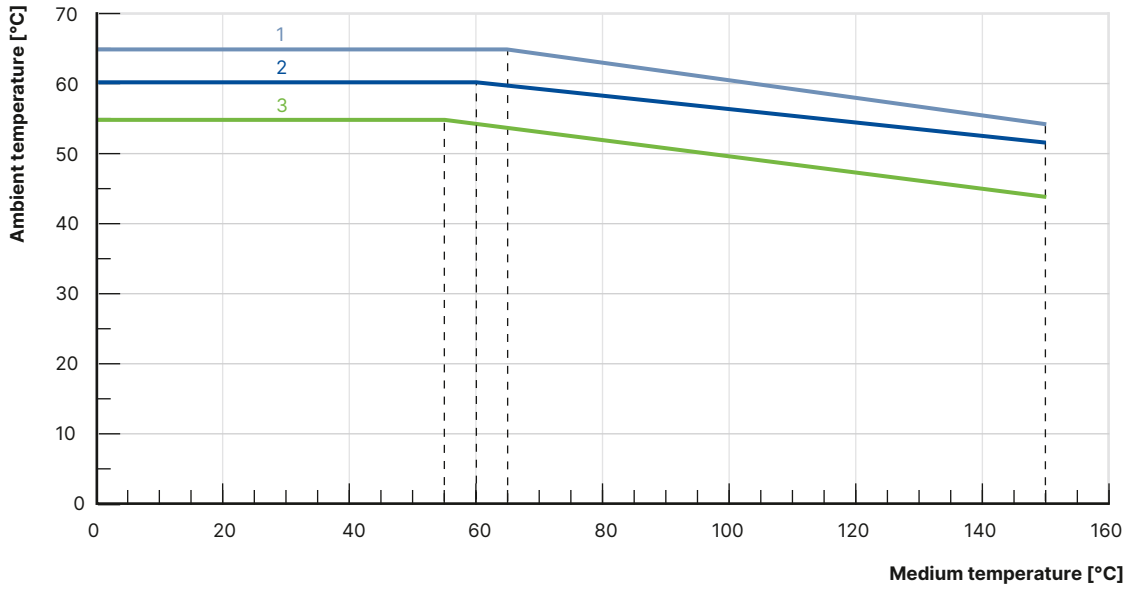
Medium pressure

Diaphragm size	Actuator size	Max. operating pressure for seal material		
		EPDM, FKM	PTFE/EPDM, advanced PTFE/EPDM (EU)	Laminate of GYLON® and EPDM (ER)
	[N]	[bar]	[bar]	[bar]
8	N (AG2 / 2500 N)	10	10	10
15		10	10	10
20		10	10	10
25		10	10	10
32		8	5.5	5.5
40		4	2.5	2.5
40	S (AG3 / 11500 N)	10	10	10
50		10	10	10
65		10	6	6
80		6	2.5	6
100		3.5	–	–

Operating limits for ambient and medium temperature

The maximum permissible temperature for the environment and the medium depend on each other. The maximum allowable temperature curves of different device variants are shown in the temperature diagram.

Temperature diagram AG2

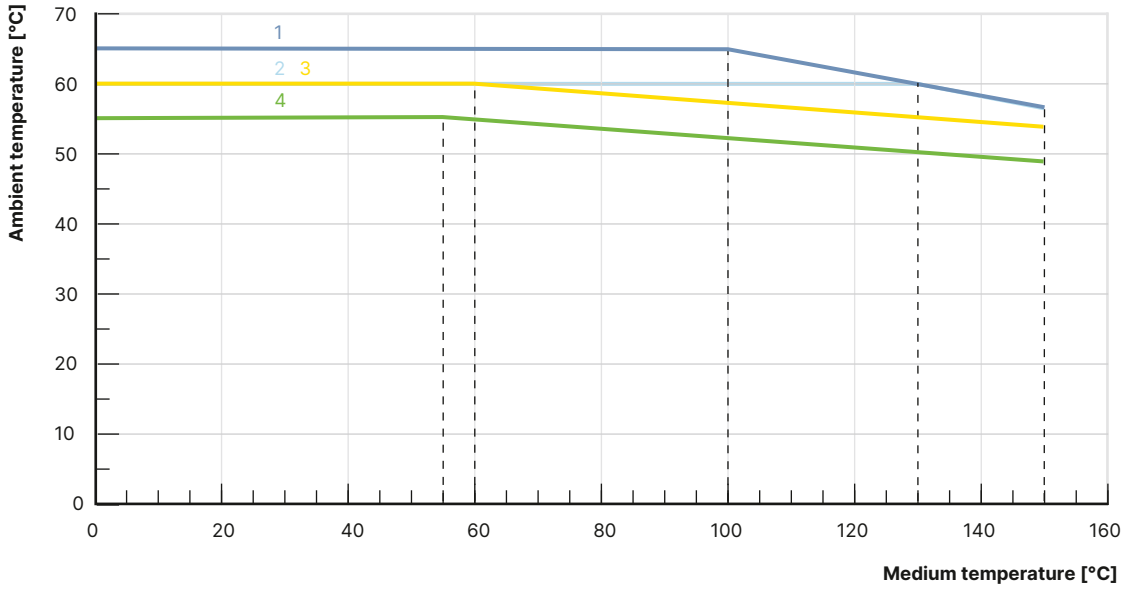


No.	Description
1	Devices without module
2	Devices with display
3	Devices with the energy storage SAFEPOS energy-pack or fieldbus gateway, with/without display module

1.) The service life of the energy storage SAFEPOS energy-pack depends on the medium temperature and the ambient temperature.

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Temperature diagram AG3



No.	Description
1	Devices without module
2	Devices with the energy storage SAFEPOS energy-pack
3	Devices with display module with/without the energy storage SAFEPOS energy-pack
4	Devices with fieldbus gateway with/without display module with/without the energy storage SAFEPOS energy-pack

1.) The service life of the energy storage SAFEPOS energy-pack depends on the medium temperature and the ambient temperature.

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6.3. Electrical control unit and interfaces

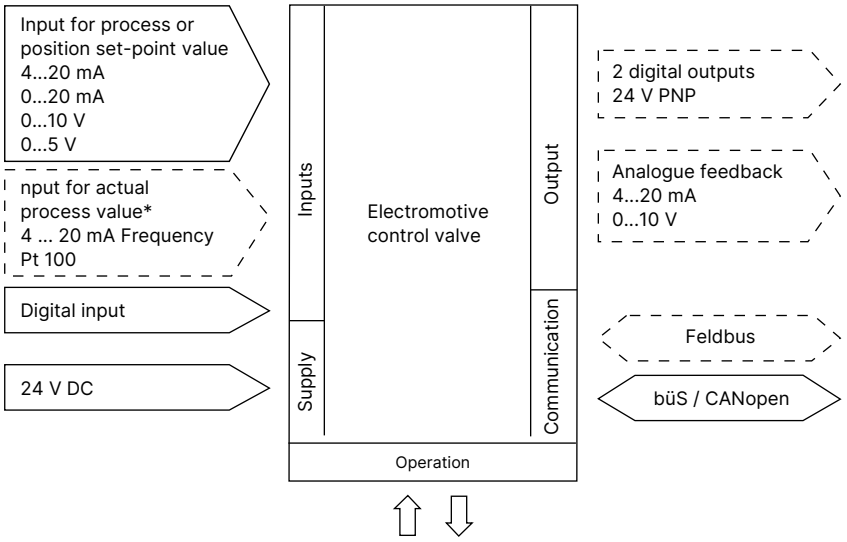
Interface diagram

The position of the actuator is regulated according to the position set-point value. The position set-point value is specified either by an external standard signal or via a fieldbus (digital).

Analogue control
For analogue control, 2 variants are available for each the inputs and outputs and the connection interface.

Inputs and outputs:
- 1 analogue input, 1 binary input
- 1 analogue input, 1 binary input, 1 analogue output, 2 binary output (option)
- 1 input for actual process value (for process controller variant)

Interface:
- Cable gland with connection terminals (only AG2)
- M12 circular plug-in connectors (optional)



Note: Optional outputs are represented with a broken line

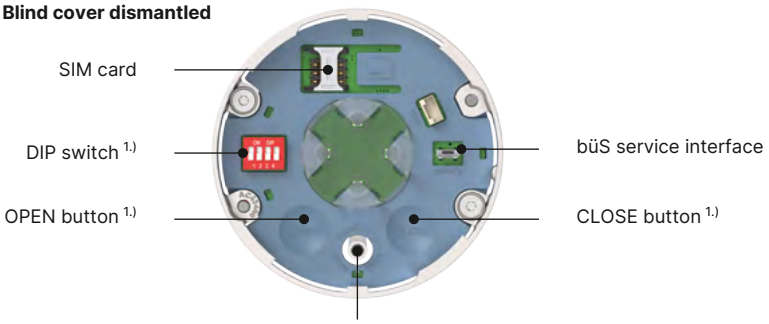
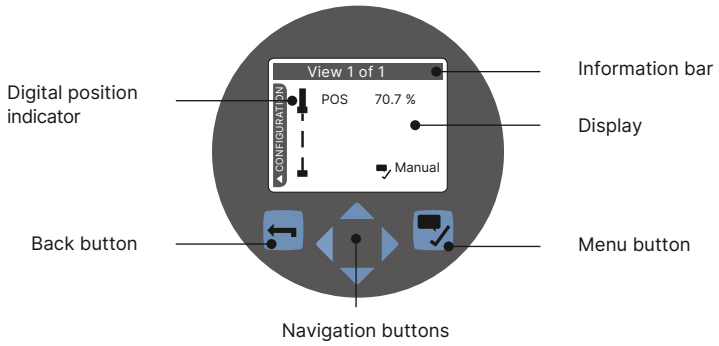
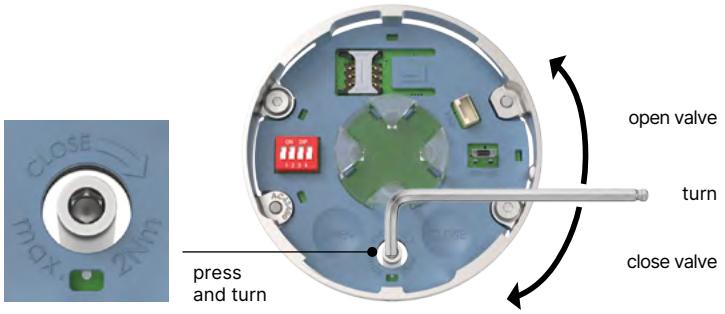
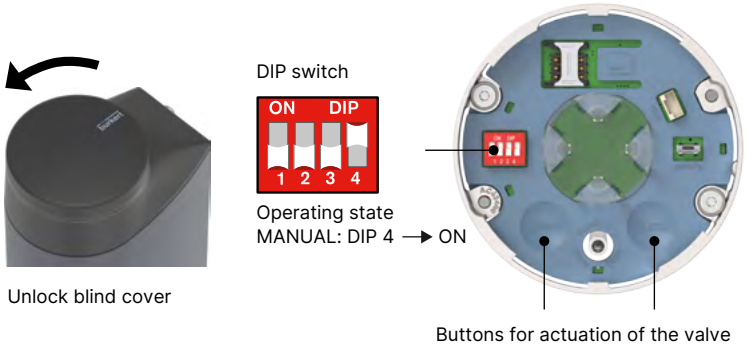
Control data	
Analogue input set-point value	Galvanically isolated from the supply voltage and analogue output 0/4...20 mA (input resistance 70 Ω) 0...5/10 V (input resistance 22 kΩ)
Analogue output	Maximum current 10 mA (for voltage output 0...5/10 V) Load 0...800 Ω (for current output 0/4...20 mA)
Digital input	0...5 V = log „0", 10...30 V = log „1", inverted input reversed accordingly
Digital output	PNP, current limitation 100 mA
Analogue input actual value (optional)	
4...20 mA	Input resistance: 80 Ω Resolution: 12 bit
Frequency	Measuring range: up to 1000 Hz Input resistance: > 30 kΩ Resolution: 0.1 % of measurement value Input signal: > 300 mVss Signal form: sine, rectangle, triangle
Pt 100	Measuring range: - 20 °C...+ 220 °C Resolution: 0.01 °C Measurement current: 1 mA
Communication	
Communication interface (büS)	Connection to PC via USB büS interface set
Communication software (büS)	Bürkert Communicator, see **Type 8920** ▶

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7. Product features and structure

7.1. Product features

Note
Further information can be found in the **operating instructions Type 3363 ▶**.

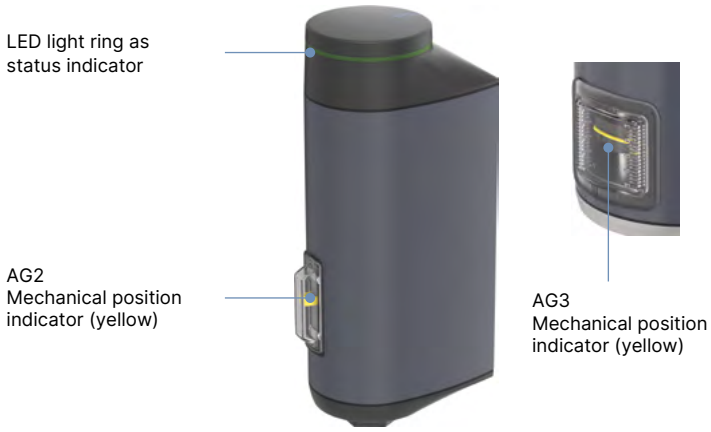
Operation	
Devices without display module The basic functions are operated by 4 DIP switches and 2 push buttons. These are located under the blind cover which can be removed manually by turning. Through the büS service interface, the device can also be configured in detail with the Bürkert Communicator software. For this, the optional USB-büS interface set is required (see "8.4. Ordering chart accessories" on page 48).	**Blind cover dismantled**  1.) Non-functional in devices with display module. The display must be used for operation.
Devices with display module The robust display module is easy to use, it configures and displays all the required functions. In addition to the start screen you can also switch to the configuration view and user-specified views as needed. The functions of the device without a display module, such as büS service access, are also available here.	
Actuation	
Mechanical manual override The manual override for mechanical movement of the valve is located for AG2 under the blind cover or display module and for AG3 under the pressure compensation element. It ensures that the actuator can be operated even if the power supply fails.	Mechanical manual override AG2 
Electrical manual override The electrical manual override for the procedure is carried out via two push buttons under the blind cover.	

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Display elements

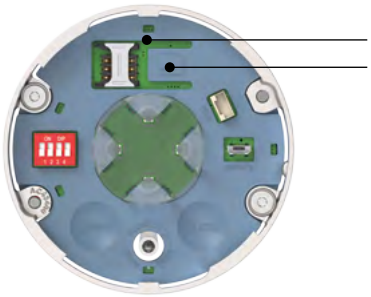
Display 360° LED light ring
A clearly visible 360° LED ring is mounted on the blind cover or display module to indicate the device status, valve position and the operating state. The LED light ring lights up, blinks or flashes in one or changing colours, depending on the LED mode setting.

Mechanical position indicator:
The mechanical position indicator shows the current valve position even if the supply voltage fails.

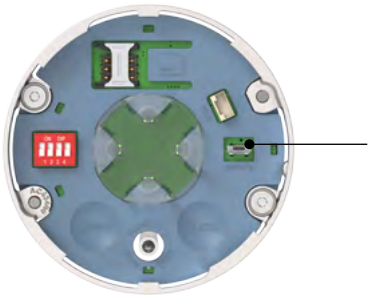


Data transfer (optional)

SIM card (optional)
With the optionally available SIM card, device-specific values and user settings can be stored and quickly transferred to another device.



büS service interface
The büS service interface connects the device to the Bürkert Communicator software on a PC, laptop or smartphone. From there, you can configure the device or perform error diagnostics.



Safety position via energy storage device (optional)

The safety starting position in case of power interruption is realised with the optional energy storage SAFEPOS energy-pack. The desired position is set via the menu. In addition to the end positions (open/closed), any desired intermediate position can be defined here. The energy storage device is a wearing part and has a service life of up to 10 years, depending on the operating conditions.The performance of the energy storage is monitored and a warning is displayed to indicate its service life coming to an end. The storage device is designed as a plug-in module to facilitate replacement. Without the energy storage, the valve remains in the last position it was in.

The energy storage device is fully charged and ready for operation after a maximum of 120 seconds (depending on the operating conditions).

The energy storage device cannot be retrofitted in the field.



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Fieldbus: EtherNet/IP, PROFINET, Modbus TCP, EtherCAT (optional)	
The fieldbus gateway for EtherNet/IP, PROFINET, Modbus TCP and EtherCAT is integrated in an additional module. It has 2 fieldbus connections with 4-pin M12 circular plug-in connectors. The interfaces for the fieldbus connection and the status LEDs are located under the gateway housing cover. The configuration of the Ethernet participant, required to connect to the network, can be run via a web server. The gateway cannot be retrofitted in the field.	

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7.2. Product structure

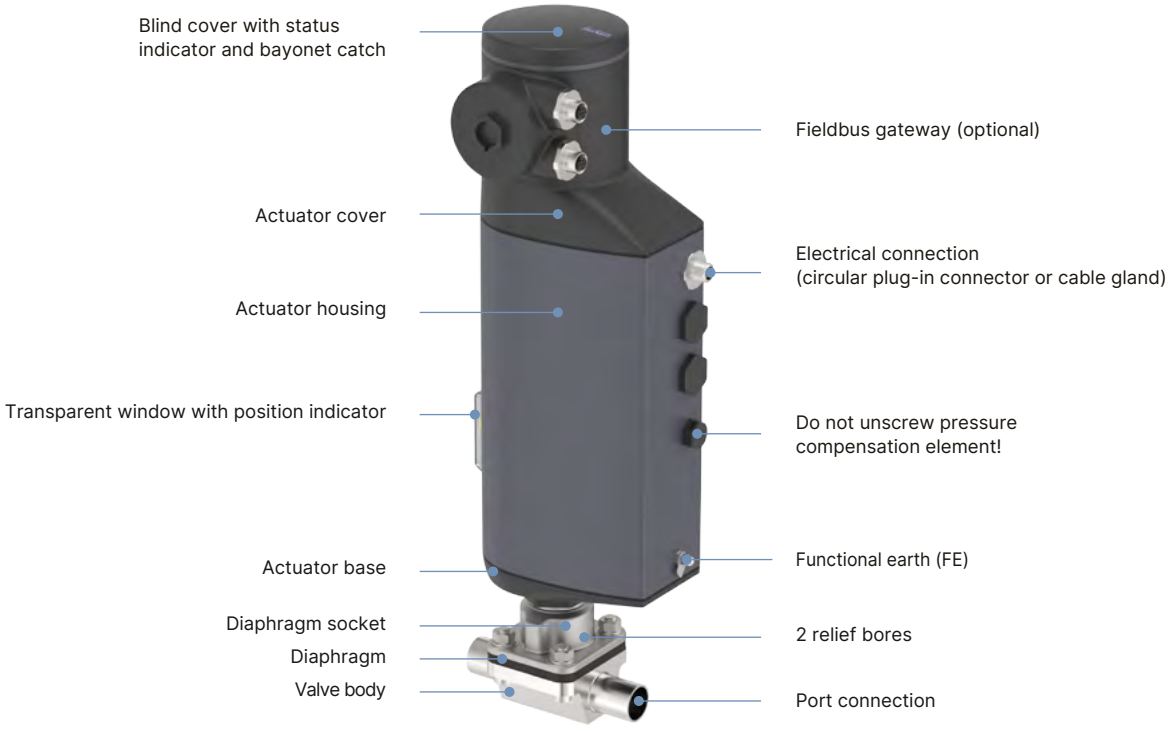
The electromotive linear drive consists of a brushless DC motor, a gear and a spindle system that transfers the force to the closing element. The integrated control electronics are controlled either by standard signals or via a fieldbus (digital). A positioner and a process controller are available as controller variants. The electromotive linear actuator is designed to provide optimum efficiency. At the same time, it keeps the valve tight and in position even at the maximum specified medium pressure in a powerless standstill. The optional energy storage SAFEPOS energy-pack is available for the device. If the supply voltage fails, it supplies the actuator with the energy required to move the valve into the desired position which can be set in the menu.

The valve position can be changed manually in 2 ways. Either via the electrical manual override or via a mechanical manual override if no supply voltage is available. The device can be set and operated either via 2 capacitive keys and 4 DIP switches or optionally on a display with touch screen. Additionally, you can always operate the device via the büS service interface and using the Bürkert Communicator software.

The intelligent process valve Type 3363 offers the operator options for process monitoring, valve diagnostics and preventive maintenance. Internal measurements of the operating state are evaluated and, if necessary, issued as a warning or error message. These signal, for example, impermissible ambient and process conditions, functional deviations of components or the state of the energy storage device.

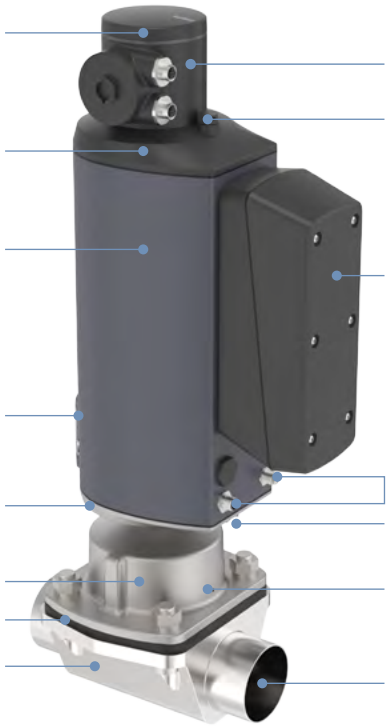
To increase diaphragm service life, the drive force is adapted to the diaphragm size. It can also be adapted to the operating conditions to achieve optimum service life.

Design of electromotive diaphragm valve Type 3363 AG2



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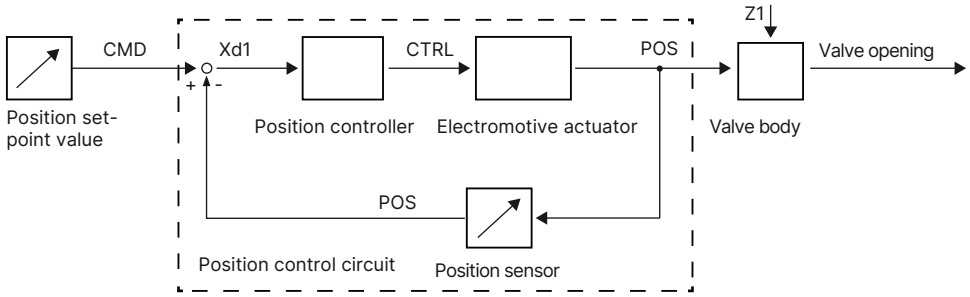
Design of electromotive diaphragm valve Type 3363 AG3



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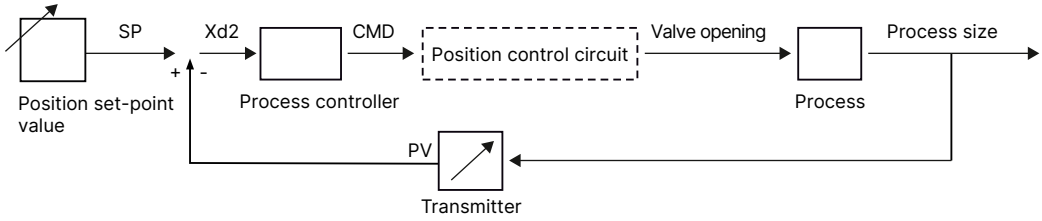
Integrated position controller

The position of the actuator (stroke) is controlled according to the position set-point value. The position set-point value is either given by an external standard signal (analogue) or via a fieldbus (digital). The displacement transducer records the actual position (POS) of the electric linear actuator. The positioner compares the actual position value with the position set-point value (CMD) specified as standard signal. If there is a system deviation (Xd1), the electric motor drive is controlled via the actuating variable CTRL and the actual position value is changed accordingly.



Integrated process controller (optional)

The additionally implemented PID controller allows process control. The set-point position of the valve is calculated from the external signal (e.g. level, pressure, flow rate, temperature) for the process set-point and the actual process value via the control parameters (PID controller).



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8. Ordering information

8.1. Bürkert eShop



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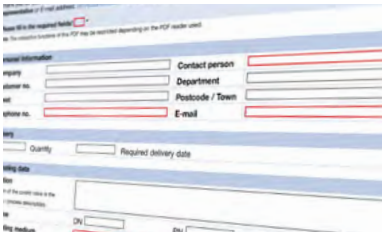


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8.3. Bürkert Product Enquiry Form



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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8.4. Ordering chart accessories

Note:
For device variants with approvals or conformities, additional accessories may be required for intended use. Please refer to the relevant approval documentation.

Standard accessories

Description	Article no.
SIM card for data transfer between devices	291773
Holding device for port connection DN 08...DN 40 [1.)]	697473
Blind cover made of plastic	277881
Wearing part energy storage SAFEPOS energy-pack (AG2)	285834
Wearing part energy storage SAFEPOS energy-pack (AG3)	20046438

1.) For diaphragm size 08, the holding device is included in the scope of delivery.

Accessories cable

Note:
For connection to a büS/CANopen network see „Supplement | Cabling guide büS/EDIP“ on our website under **„User Manuals“, Type 3363** ▶.

Description	Article no.
M12 circular socket with cable, 4-pin, A-coded, cable length: 5 m, for X3, operating voltage AG2 (without communication)	918038
M12 circular socket with cable, 5-pin, L-coded, cable length: 5 m, for X4, operating voltage AG2 (without communication)	20010840
M12 circular socket with cable, 8-pin, A-coded, cable length: 2 m, for X1, input and output signals	919061
M12 circular plug with cable (shielded), 5-pin, A-coded, cable length: 2 m, for X2, input signals process actual value (only for variant with process controller)	559177
M12 circular plug with cable, 4-pin, D-coded to M12 straight plug, cable length: 5 m, for X7, fieldbus connection	775043
M12 circular plug with cable, 4-pin, D-coded to RJ45 plug, cable length: 5 m, for X7, fieldbus connection	775053

Bürkert accessories

Note:
- For connection to a büS/CANopen network see „Supplement | Cabling guide büS/EDIP“ on our website under **„User Manuals“, Type 3363** ▶.
- For detailed accessory tables, see „Supplement | Cabling guide büS/EDIP“ on our website under **„User Manuals“, Type 3363** ▶.

Description	Article no.
Software Bürkert Communicator, Type 8920	**Type 8920** ▶
USB-büS interface set 1 (Type 8923)	772426
USB-büS interface set 2 (Type 8923)	772551
büS adapter for büS service interface (M12 on büS service interface micro USB), cable length: 0.3 mm	774931

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