

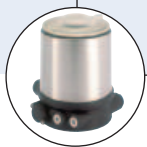


## Multifunction Bloc Solution



- Fully integrated in Burkert's Process Control Systems
- Quality certifications **FDA** , USP

Type 2034 can be combined with...



**Type 8691**  
Control Head



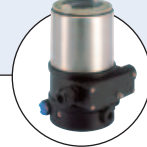
**Type 8686**  
Control Head  
Robolux



**Type 8690**  
Pneum. control unit  
with feedback



**Type 8685**  
Control unit  
Robolux



**Type 8692**  
Positioner Top-  
Control continuous



**Stroke limitation**  
Min./max. stroke  
limitation

The Bürkert bloc configurations are designed for the control of ultrapure, sterile, aggressive or abrasive fluids. They are designed to be fully drainable and can be operated by either pneumatic actuator or manual handwheel.

Available accessories include Positioner/PID controllers, stroke limiters, electrical feedback, pneumatic pilot valves.



Technical data																
<b>Orifice</b>	DN08 to DN100															
<b>Body material</b>	<ul style="list-style-type: none"> <li>▪ Stainless steel 1.4435 / 316L</li> <li>▪ Stainless steel 1.4435 acc. to BN2 / ASME BPE, Fe &lt; 0.5%</li> <li>▪ Other on request</li> </ul>															
<b>Port connections</b>	<ul style="list-style-type: none"> <li>▪ DIN EN ISO 1127 / ISO 4200 / DIN 11866 Serie B</li> <li>▪ DIN 11850 Serie 2 / DIN 11866 Serie A</li> <li>▪ ASME BPE / DIN 11866 Serie C</li> <li>▪ DIN 32676 Serie A (DIN tube)</li> <li>▪ DIN 32676 Serie B (ISO tube)</li> <li>▪ ASME BPE</li> </ul>															
Weld end																
Clamp																
<b>Surface finish</b>	<table border="1"> <thead> <tr> <th></th> <th>Ra [µm]</th> <th>Ra [µlnch]</th> </tr> </thead> <tbody> <tr> <td>internal</td> <td></td> <td>internal</td> </tr> <tr> <td>Mechanical polished</td> <td>0.6</td> <td>25</td> </tr> <tr> <td>Electro polished</td> <td>0.4</td> <td>15</td> </tr> <tr> <td>Other on request</td> <td></td> <td>Other on request</td> </tr> </tbody> </table>		Ra [µm]	Ra [µlnch]	internal		internal	Mechanical polished	0.6	25	Electro polished	0.4	15	Other on request		Other on request
	Ra [µm]	Ra [µlnch]														
internal		internal														
Mechanical polished	0.6	25														
Electro polished	0.4	15														
Other on request		Other on request														
<b>Seal materials</b>	EPDM, PTFE/EPDM, advanced PTFE/EPDM, FKM															
<b>Actuator material</b>	PPS, cover in Stainless steel 1.4561 (316Ti) PA, socle in Stainless steel 1.4308 1.4308 Stainless steel (CF8) PPS/PPS, PPS/St. steel (DN65, 80, 100 in full stainless steel)															
Element (DN08-50)																
Classic (DN65-100)																
Robolux Manual																
<b>Pilot air ports</b>	G 1/8" or Push-In															
<b>Media temperature</b>	-5 to +143°C (SIP: up to +150°C, 60 min.) +5 to +130°C (SIP: up to +143 °C, 60 min.) <sup>2)</sup> -10 to +130°C (SIP: up to +140°C, 60 min.) +5 to +90°C (no steam)															
EPDM (AD)																
advanced PTFE/EPDM (EU) <sup>1)</sup>																
advanced PTFE laminated on EPDM (EK) <sup>2)</sup>																
<b>Ambient temperature</b>	+5 to +60°C															
<b>Control medium</b>	Neutral gases, air															
<b>Installation for self-draining</b>	See configuration option on page 6															

<sup>1)</sup> Advanced PTFE/EPDM is recommended for sterilization cycle


<sup>2)</sup> only Robolux

Technical data, *continued*



## Pneumatic actuator

	Port connection DN		Orifice (diaphragm size) [mm]	Actuator size Ø [mm]	Permitted pilot pressure [bar]		Max. operating pressure for seal material [bar]	
	[mm]	[inch]			min.	max.	EPDM, FKM	PTFE/EPDM and advanced PTFE/EPDM
<b>ELEMENT</b> 	8	1/4"	8	50	5	10	10	10
	10	3/8"	8	50	5	10	10	10
	15	1/2"	15	70	5	10	10	10
	20	3/4"	20	70	5	10	10	10
	25	1"	25	70	5	10	6.5	6
				90	5.5	10	10	8
	40	1 1/2"	40	130	5	7	10	10
50	2"	50	130	5	7	8	7	
<b>Classic</b> 	65	2 1/2"	50 or 80	125	5.5	7	8	7
				225	5	6	10	10
	80	3"	80	225	5	6	10	10
	100	4"	100	225	5	6	8	4

## Pneumatic actuator

	Actuator size [mm]	Actuator version	Pilot pressure [bar]	Max. operating pressure for seal material [bar]	
				EPDM	advanced PTFE/EPDM
<b>Robolux</b> 	RV50	D11	6-10	7.5	7.5
		D55 (reduce spring force)	4-10	5	3.5
	RV70	D11	6-10	8	8
		D55 (reduce spring force)	4-10	5.5	6
	RV110	D11	6-7	7	7.5
		D55 (reduce spring force)	4-7	5	5

## Manual actuator

	Port connection DN		Orifice (diaphragm size) [mm]	Max. operating pressure for seal material [bar]	
	[mm]	[inch]		EPDM, FKM	PTFE/EPDM and advanced PTFE/EPDM
	8	1/4"	8	10	10
	10	3/8"	8	10	10
	15	1/2"	15	10	10
	20	3/4"	20	10	10
	25	1"	25	10	10
	40	1 1/2"	40	10	10
	50	2"	50	7/10	7/10
	65	2 1/2"	50 or 80	5/7/10	5/7/10
	80	3"	80	5	5
	100	4"	100	5	5

**Pressure values (bar)**

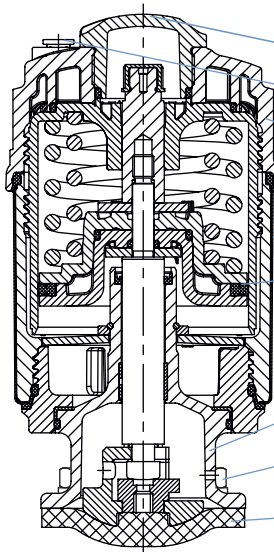
Gauge pressures with respect to the prevailing atmospheric pressure.

**Remark:**

For low operating pressures we recommend reduced spring force versions to prolong the life of the diaphragm

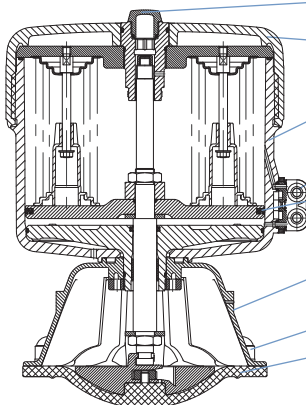
Materials

**ELEMENT actuator DN08- DN50**



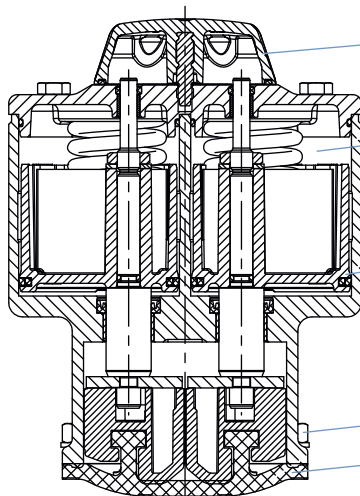
- Optical position indicator**      Transparent cap polysulfone PSU
- Pilot air ports**                      Push-in connector PP (standard)  
*on request: Thread 1/8" stainless steel 1.4305*
- Actuator cover**                          PPS
- Cover**                                      Stainless steel 1.4561 (316Ti)
- Piston seal**                                FKM
- Socle**                                        Stainless steel 1.4308
- Screws**                                    Stainless steel
- Diaphragm**                                EPDM, PTFE/EPDM  
*(advanced PTFE/EPDM, FKM on request)*

**Classic actuator DN65- DN100**



- Optical position indicator**      Transparent cap polycarbonate PC
- Actuator**                                  PA Polyamide
- Pilot air ports**                          Thread 1/8" stainless steel 1.4305
- Piston seal**                                NBR
- Socle**                                        Stainless steel 1.4308
- Screws**                                    Stainless steel
- Diaphragm**                                EPDM, PTFE/EPDM  
*(advanced PTFE/EPDM, FKM on request)*

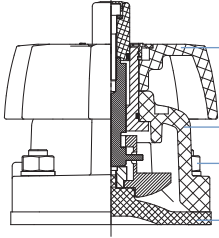
**Robolux actuator**



- Optical position indicator**      Transparent cap Polyamide 12
- Actuator**                                  Stainless steel 1.4308/PPS
- Piston seal**                                FKM
- Screws**                                    Stainless steel
- Diaphragm**                                EPDM, advanced PTFE/EPDM

## Materials, *continued*

### Manual actuator DN08 - DN100

	<b>Handwheel</b>	PPS or 316L stainless steel*
	<b>Socle</b>	PPS or 316L stainless steel*
	<b>Screws</b>	Stainless steel
	<b>Diaphragm</b>	EPDM, PTFE/EPDM advanced PTFE/EPDM

\* DN65 to DN100 only in stainless steel

## Approvals/certifications

- Certification of Conformity for Raw Material EN-ISO 10204 3.1
- Attestation of compliance with the order EN-ISO 10204 2.1
- Test report EN-ISO 10204 2.2
- Certification of Conformity for Pickling and Electropolishing Processes
- Certification of Conformity for the Surface Quality DIN4762-DIN4768-ISO/4287/1
- Certification for the fulfillment of FDA CFR No. 21.177.1550 for PTFE/EPDM and advanced PTFE/EPDM and 21.177.2600 for EPDM
- USP CLASS VI certification for EPDM and PTFE diaphragm
- Test Certification and Conformity Certification for the Final Assembly of Diaphragm Valves
- ISO 9001 Certification

**Note:** Retrospective manufacturing certification for process diaphragm valves can not be made, therefore please notify when ordering.

## Example of available diaphragm materials

Developed to handle the unique challenges of hygienic and sterile applications, Bürkert offers diaphragms with precise material formula and physical tolerances. Bürkert diaphragms are available in a wide range of materials which have been proven in food & beverage, biotechnology, pharmaceutical and cosmetic industry applications. Diaphragms are tested during development and production to ensure reliability in critical processing environments.



- EPDM
- PTFE/EPDM
- advanced PTFE/EPDM
- FKM

Valve features, specification key 1

Example

2034	B	04	05	E	R	VI	EU	25	0403
------	---	----	----	---	---	----	----	----	------

Specification key

(Please make a choice)

2034									
------	--	--	--	--	--	--	--	--	--

PRODUCTION OF BODY	
B	Bloc material

AMOUNT OF VALVE SEATS	
01	Seat
02	Seats
:	Seats
05	Seats
06	Seats

NUMBER OF PORTS	
01	Connection
02	Connections
:	Connections
07	Connections
08	Connections

ACTUATOR VERSION	
E	ELEMENT actuator
K	CLASSIC actuator
R	Robolux actuator
X	Robolux & CLASSIC
Y	Robolux & ELEMENT
Z	ELEMENT & CLASSIC

OPERATION	
M	Manual
P	Pneumatic
R	Pneumatic with control
X	Manual & Pneumatic

BODY MATERIAL	
VH	1.4435/AISI 316L
VI	1.4435 acc. to BN2/ASME BPE

SEAL MATERIAL	
AB	EPDM
EU	Advanced PTFE
FF	FKM
AD	EPDM for high temperature
EK	Advanced PTFE laminated on EPDM (only Robolux)

MAIN ORIFICE [mm]	
8	
15	
20	
25	
40	
50	
65	
80	
100	

CONFIGURATION

0201	see next page for further info <a href="#">go to page</a>
0202	
0203	
0227	
0233	
0234	
0236	
GMP3	
GMP4	
GMP5	
GMP6	
SAP1	
SAP2	
SAP3	
SAP4	
SAP7	
SAP8	
0235	
0325	
0301	
0303	
0319	
0413	
0403	
0416	
0417	
0501	
0602	
CSBS	

Configurations

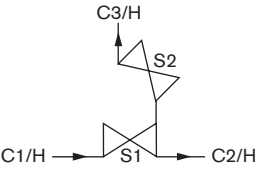
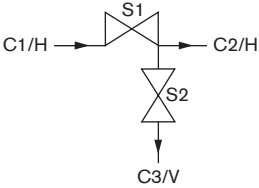
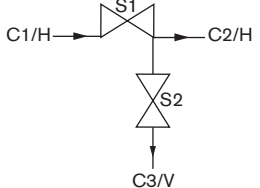
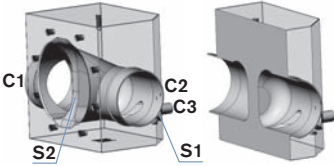
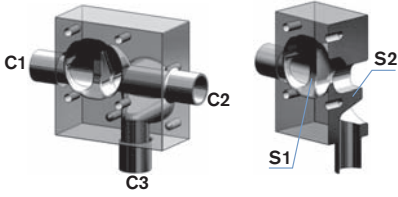
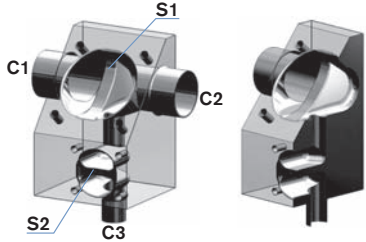
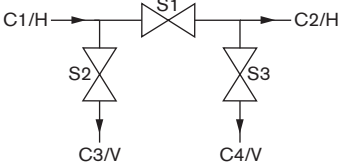
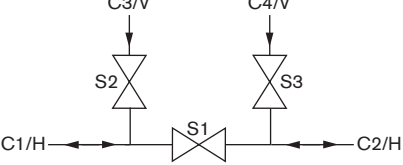
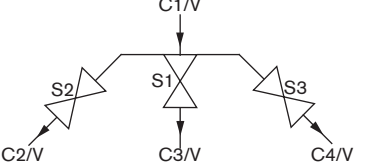
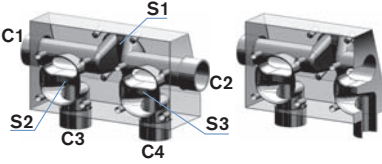
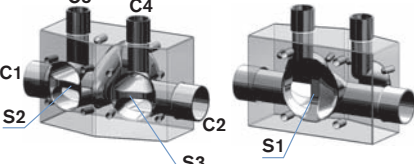
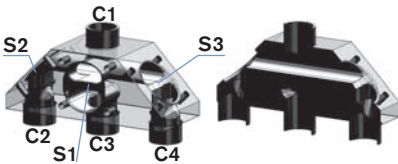
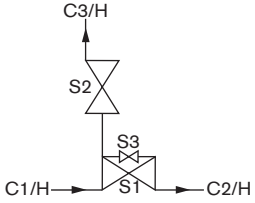
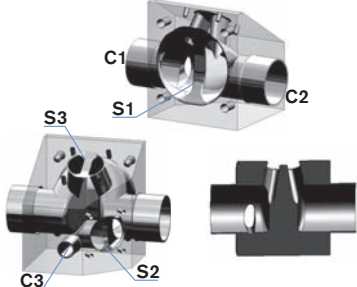
0201	0202	0203
0227	0233	0234
0235	0236	

Configurations, *continued*

GMP3	GMP4	GMP5
GMP6		
SAP1	SAP2	SAP3



Configurations, *continued*

SAP4	SAP7	SAP8
		
		
0301	0303	0319
		
		
0325		
		
		

Configurations, *continued*

0403	0413	0416

**0417**

**0501**

**0602**





**Customized configuration – request for quotation**

▶ Please fill out and send to your nearest Bürkert facility\* with your inquiry or order

Company	Contact person
Customer no.	Department
Address	Tel./Fax
Postcode/town	E-Mail



Bloc solution

**Sales data**

**Project name:** \_\_\_\_\_

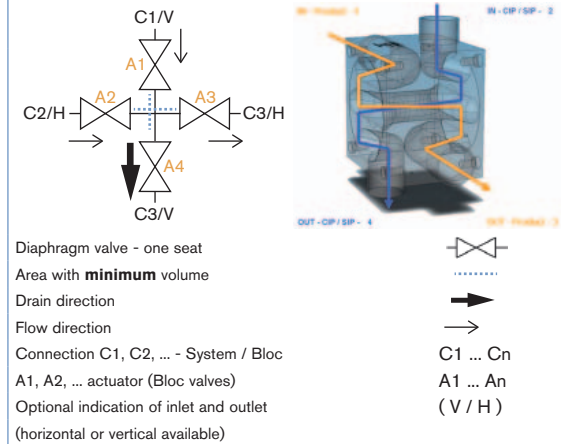
**Quantities:** \_\_\_\_\_  single enquiry  
 enquiry for series

**Flow schematic**

**Warning:** connection and valve description should be in accordance with the table that filled below!

Please sketch the schematic

**Legende**



**Technical data -Fluidic**

Medium nature	_____	Medium pressure	_____
Medium temperature	_____	Medium viscosity	_____
Kv value or flow rate	_____	<input checked="" type="checkbox"/> Bürkert standard in blue	
Material for the bloc	<input checked="" type="checkbox"/> 1.4535 / 316L	<input type="checkbox"/> 1.4435 acc.to BN2 / ASME BPE	Specific material: _____
Surface finish (internal)	<input type="checkbox"/> 0.8 <input checked="" type="checkbox"/> 0.6 <input type="checkbox"/> 0.4 <input type="checkbox"/> 0.25		Specific surface finish (Ra in µm): _____
	<input type="checkbox"/> Electropolish		_____
Surface finish (external)	<input checked="" type="checkbox"/> 1.6		Specific surface finish (Ra in µm): _____
Diaphragm material	<input checked="" type="checkbox"/> EPDM <input type="checkbox"/> PTFE <input type="checkbox"/> FKM <input type="checkbox"/> Silicone (only Robolux)		_____

**Connection definition**

Nominal size C-Nr.	DN	Weld end			Clamp			Divers
		DIN 11850 S2 DIN 11866 SA	ISO 4200 EN ISO 1127 DIN 11866 SB	ASME BPE DIN 11866 SC	DIN 32676 S.A	DIN 32676 S.B	ASME BPE	
C1	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
C2	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
C3	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
C4	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
C5	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
C6	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
C7	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
C8	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Actuator and actuation see specification on next page.

**Customized configuration – request for quotation, *continued***

**Automation system (product overview)**

**ELEMENT actuator system**

compact stainless steel design  
 designed for modular actuation  
 fresh air system

**ELEMENT control head Type 8691**

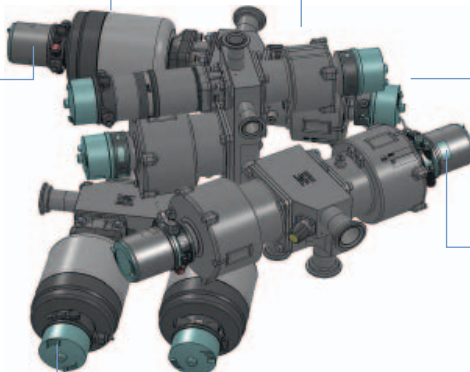
integrated pilot valve  
 position teach in  
 large LED indication  
 ASI and device net communication possible

**ELEMENT control head Type 8695 for actuator 50mm**

integrated pilot valve  
 position teach in  
 Large LED indication  
 ASI and device net communication possible

**ELEMENT feedback head Type 8690 / 8697**

mechanical electrical feedback  
 inductive feedback  
 Eexi version



**Robolux actuator system**

double actuator with 2 valve function  
 optimum designed for modular actuator concept  
 high life time with double piston actuator

**Robolux double feedback head Type 8685**

contactless position detection  
 LED indicator  
 ASI communication  
 Namur / Ex (without LED)

**Robolux double control head Type 8686**

2 pilot valve for multi port valve  
 contactless position detection  
 LED indicator  
 ASI communication

**Technical data - Actuation**

Pilot pressure \_\_\_\_\_  Bürkert standard in blue

Ambient temperature \_\_\_\_\_

Cycle per year \_\_\_\_\_

Implementation (clean room, outside...) \_\_\_\_\_

Hazardous location (EX / ATEX / NAMUR) \_\_\_\_\_

Actuator material  St. steel/Plastic  Plastic

Power supply  8 V Namur  24 V/DC  230 V/50-60 Hz

IP protection  IP65  IP67

Automation  ASI  DeviceNet

Remarks:

Other actuator material \_\_\_\_\_

Other protection / application conditions \_\_\_\_\_

Other power supply \_\_\_\_\_

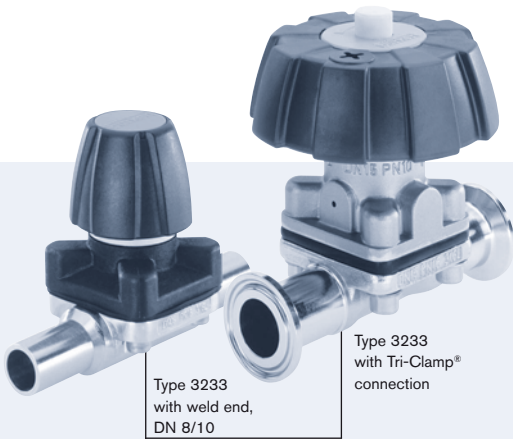
Other automation (PLC / Fieldbus) \_\_\_\_\_

**Definition actuation, feedback, pilote valves control head**

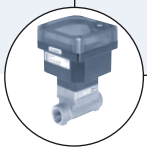
Nominal size A-Nr.	DN	Actuator		Control feedback		Control head + Pilot valve	Control function	
		Pneumatic	Manual	Position ON	Position OFF		normally closed	normally open
A1	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A2	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A3	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A5	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A6	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A7	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A8	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Fluidic specification, connections, norms see previous page.

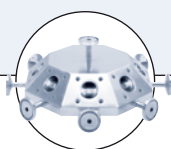
## 2-way Diaphragm Valve, cast valve body, weld end and Tri-Clamp® connection, DN 4-50



Type 3233 can be combined with...





**Type 8034**  
Flow meter



**Multi-Port Block**



**Type 3233/2031**  
Tandem valve





- Hermetical separation of fluids from the operating mechanism by diaphragm
- Zero dead volume
- Visual position indication
- Optional locking function (>DN15)
- Quality certifications  / 

The 3233 manually-operated diaphragm valve in compact form consists of a flow-optimised cast stainless steel body with various surface finishes, a diaphragm and a manual actuator.

The material combinations are selectable. The diaphragm is both a switch element and a sealing element to the outside. It can be easily replaced. The flow can be continually adjusted with the manually actuator.

The valves have no dead volume and can be mounted to be self-draining. This enables high flow capacities and a variety of applications to be realized. The valves are autoclavable.

### Applications

-  Water treatment
-  Pure water production
-  Biotechnology
-  Nutraceuticals

Technical data	
<b>Orifice</b>	DN 4 - 50
<b>Body material</b>	Cast stainless steel 316 L/1.4435
<b>Actuator materials</b> Handwheel and bonnet	PPS, stainless steel
<b>Seal materials</b>	EPDM, PTFE/EPDM (FKM, TFM on request)
<b>Media</b>	Neutral gases and liquids, high purity, sterile, aggressive or abrasive fluids
<b>Surface finish</b> internal mechanical polished internal electro polished	(average surface finish) Ra ≤ 1.6 µm, ≤ 0.8 µm Ra ≤ 0.6 µm
<b>Medium pressure</b>	0 up to 10 bar
<b>Media temperature</b> EPDM PTFE/EPDM	-10 to +130°C Briefly up to +150°C for steam sterilisation -10 to +130°C
<b>Ambient temperature</b>	Up to +130°C Briefly up to +150°C
<b>Port connections</b> Weld end acc.  Tri-Clamp® acc.  Sterile threaded ends and other ports	<ul style="list-style-type: none"> <li>•EN ISO 1127/ISO 4200</li> <li>•DIN 11850 Series 0 to Series 3</li> <li>•SMS 3008</li> <li>•ASME BPE on request</li> <li>•ISO 2852/SMS 3017</li> <li>•DIN 32676</li> <li>•BS 4825</li> </ul> on request
<b>Installation</b> with self-draining operation	As required, preferably with actuator in upright position see drawing p. 2

\*Tri-Clamp® is a registered Trademark of Alfa Laval Inc.

## Technical data, continued

### Kv-values and weight

Port connection		Kv-value water [m <sup>3</sup> /h]	Max. operating pressure [bar]	Weight [kg]	
[mm]	[inch]			Handwheel PPS/ bonnet stainless steel	Handwheel and bonnet PPS
4/6	–	0.8	10	0.4	0.3
8	1/4"	1.0	10	0.4	0.3
10	3/8"	1.0	10	0.4	0.3
15	1/2"	6.0	10	0.7	0.6
20	3/4"	11.0	10	1.0	0.9
25	1"	16.0	10	1.8	1.6
32	1 1/4"	29.0	10	3.4	3.1
40	1 1/2"	29.0	10	3.4	3.1
50	2"	50.0	7/10 <sup>1)</sup>	4.2	3.7

1) See ordering charts

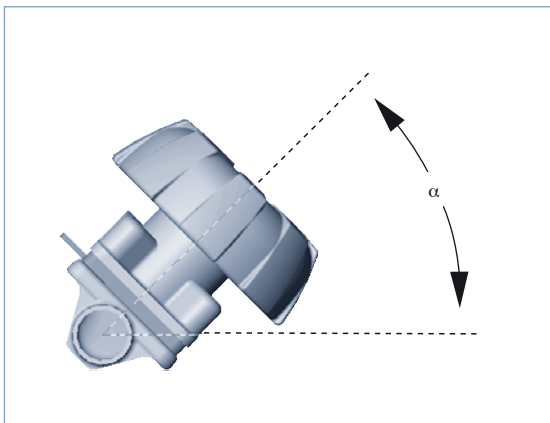
### Flow rate: Kv-value water (m<sup>3</sup>/h)

Measured at +20°C, 1 bar pressure at valve inlet and free outlet.

### Pressure values (bar)

Gauge pressures with respect to the prevailing atmospheric pressure.

### Installation for self-draining operation

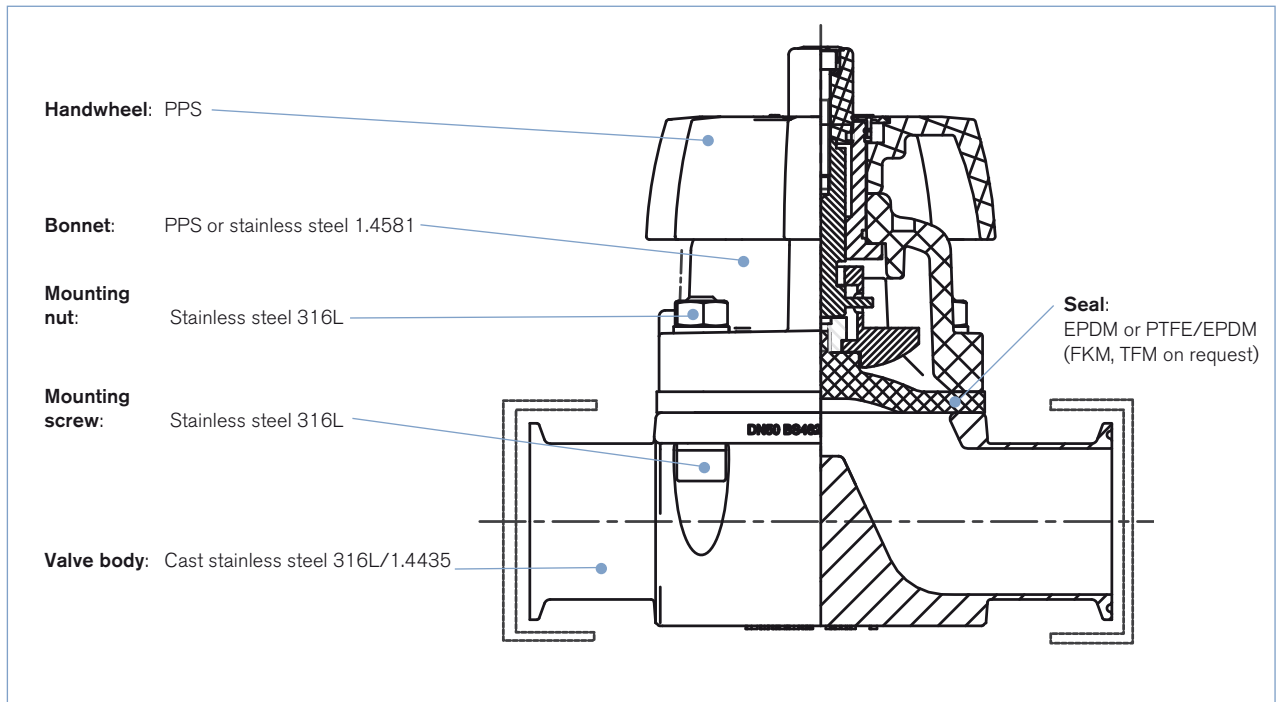


$\alpha$  = 15 up to 35° plus 3° to 5° inclination to the pipe axis.

For detailed installation angle values, please contact your local Bürkert representative.



## Materials



## Approvals

### Suitable for foodstuffs / sterile applications



- The composition of the EPDM and PTFE/EPDM diaphragms corresponds to the *Code of Federal Regulations*, published by the *FDA* (Food and Drug Administration, USA).


- The EPDM diaphragms correspond to the *KTW-Recommendation* (Plastics in the Drinking Water Sector). A Manufacturer's Declaration will be supplied on request.



- The diaphragm valves are 3-A approved (3-A Sanitary Standards Symbol Administrative Council)

## Ordering chart for valves (other versions on request)

Body with weld end, acc. EN ISO 1127/ISO 4200

	Port connection		External Ø [mm]	Kv-value water [m <sup>3</sup> /h]	Max. operating pressure [bar]	Item no.: internal/external surface		
	[mm]	[inch]				Mech. polished, Ra ≤ 1.6/6.3 µm	Mech. polished, Ra ≤ 0.8/6.3 µm	Electro polished, Ra ≤ 0.6/3.2 µm
<b>Acc. EN ISO 1127/ ISO 4200, diaphragm material EPDM</b>								
Handwheel PPS/bonnet PPS								
8	1/4"	13.5	1.0	10	442 146	442 147	442 148	
10	3/8"	17.2	1.0	10	442 170	442 171	442 172	
15	1/2"	21.3	6.0	10	442 269	442 270	442 271	
20	3/4"	26.9	11.0	10	442 308	442 309	442 310	
25	1"	33.7	16.0	10	442 351	442 352	442 353	
32	1 1/4"	42.4	29.0	10	–	551 965	554 966	
40	1 1/2"	48.3	29.0	10	442 409	442 410	442 411	
50	2"	60.3	50.0	7	442 464	442 465	442 466	
Handwheel PPS/bonnet stainless steel								
8	1/4"	13.5	1.0	10	440 976	440 977	440 978	
10	3/8"	17.2	1.0	10	441 014	441 015	441 016	
15	1/2"	21.3	6.0	10	441 060	441 061	441 062	
20	3/4"	26.9	11.0	10	441 118	441 119	441 120	
25	1"	33.7	16.0	10	441 172	441 173	441 174	
32	1 1/4"	42.4	29.0	10	–	554 967	554 968	
40	1 1/2"	48.3	29.0	10	440 956	440 957	440 958	
50	2"	60.3	50.0	10	440 960	440 961	440 962	
<b>Acc. EN ISO 1127/ ISO 4200, diaphragm material PTFE/EPDM</b>								
Handwheel PPS/bonnet PPS								
8	1/4"	13.5	1.0	10	441 809	441 810	441 811	
10	3/8"	17.2	1.0	10	441 813	441 814	441 815	
15	1/2"	21.3	6.0	10	441 817	441 818	441 819	
20	3/4"	26.9	11.0	10	441 821	441 822	441 823	
25	1"	33.7	16.0	10	441 825	441 826	441 827	
32	1 1/4"	42.4	29.0	10	–	550 767	554 969	
40	1 1/2"	48.3	29.0	10	441 829	441 830	441 831	
50	2"	60.3	50.0	7	441 833	441 834	441 835	
Handwheel PPS/bonnet stainless steel								
8	1/4"	13.5	1.0	10	441 032	441 033	441 034	
10	3/8"	17.2	1.0	10	441 090	441 091	441 092	
15	1/2"	21.3	6.0	10	441 144	441 145	441 146	
20	3/4"	26.9	11.0	10	440 972	440 973	440 974	
25	1"	33.7	16.0	10	441 010	441 011	441 012	
32	1 1/4"	42.4	29.0	10	554 970	554 971	–	
40	1 1/2"	48.3	29.0	10	441 052	441 053	441 054	
50	2"	60.3	50.0	10	441 110	441 111	441 112	

Port connection size equals the orifice diaphragm size except for port connection 32 mm. At port connection 32 mm the orifice diaphragm size equals 40 mm.

**i Further versions on request**


**Port connection**  
Sterile threaded ends




**Material**  
Seal: FKM, TFM




**Additional**  
Locking function (not for DN 8/10)

## Ordering chart for valves (other versions on request)

## Body with weld end, acc. DIN 11850 Series 0 and Series 2

	Port connection		External Ø [mm]	Kv-value water [m³/h]	Max. operating pressure [bar]	Item no.: internal/external surface		
	[mm]	[inch]				Mech. polished, Ra ≤ 1.6/6.3 µm	Mech. polished, Ra ≤ 0.8/6.3 µm	Electro polished, Ra ≤ 0.6/3.2 µm
<b>Acc. DIN 11850 Series 0, diaphragm material EPDM</b>								
Handwheel PPS/bonnet PPS								
4	–	6.0	0.8	10	443 784	443 785	443 786	
6	–	8.0	0.8	10	443 788	443 789	443 790	
Handwheel PPS/bonnet stainless steel								
4	–	6.0	0.8	10	443 800	443 801	443 802	
6	–	8.0	0.8	10	443 804	443 805	443 806	
<b>Acc. DIN 11850 Series 0, diaphragm material PTFE/EPDM</b>								
Handwheel PPS/bonnet PPS								
4	–	6.0	0.8	10	443 792	443 793	443 794	
6	–	8.0	0.8	10	443 796	443 797	443 798	
Handwheel PPS/bonnet stainless steel								
4	–	6.0	0.8	10	443 808	443 809	443 810	
6	–	8.0	0.8	10	443 812	443 813	443 814	
<b>Acc. DIN 11850 Series 2, diaphragm material EPDM</b>								
Handwheel PPS/bonnet PPS								
10	3/8"	13.0	1.0	10	442 162	442 163	442 164	
15	1/2"	19.0	6.0	10	442 261	442 262	442 263	
20	3/4"	23.0	11.0	10	441 306	441 305	442 302	
25	1"	29.0	16.0	10	442 343	442 344	442 345	
40	1 1/2"	41.0	29.0	10	442 401	442 402	442 403	
50	2"	53.0	50.0	7	442 456	442 457	442 458	
Handwheel PPS/bonnet stainless steel								
10	3/8"	13.0	1.0	10	442 107	441 108	442 109	
15	1/2"	19.0	6.0	10	442 123	442 124	442 125	
20	3/4"	23.0	11.0	10	442 017	442 018	442 071	
25	1"	29.0	16.0	10	441 718	441 719	441 720	
40	1 1/2"	41.0	29.0	10	441 641	441 642	441 643	
50	2"	50.0	50.0	10	441 621	441 622	441 623	
<b>Acc. DIN 11850 Series 2, diaphragm material PTFE/EPDM</b>								
Handwheel PPS/bonnet PPS								
10	3/8"	13.0	1.0	10	441 527	441 528	441 529	
15	1/2"	19.0	6.0	10	441 543	441 544	441 545	
20	3/4"	23.0	11.0	10	441 558	441 559	441 560	
25	1"	29.0	16.0	10	441 574	441 575	441 576	
40	1 1/2"	41.0	29.0	10	441 687	441 688	441 689	
50	2"	50.0	50.0	7	441 637	441 638	441 639	
Handwheel PPS/bonnet stainless steel								
10	3/8"	13.0	1.0	10	440 988	441 086	441 196	
15	1/2"	19.0	6.0	10	441 029	441 087	441 197	
20	3/4"	23.0	11.0	10	441 030	441 088	441 725	
25	1"	29.0	16.0	10	441 083	441 141	441 726	
40	1 1/2"	41.0	29.0	10	441 084	441 142	441 727	
50	2"	50.0	50.0	10	441 085	441 195	441 728	

 Further versions on request


 **Port connection**  
Sterile threaded ends

 **Material**  
Seal: FKM, TFM

 **Additional**  
Locking function (not for DN 8/10)

## Ordering chart for valves (other versions on request)


Body with weld end, acc. SMS 3008

	Port connection		External Ø [mm]	Kv-value water [m³/h]	Max. operating pressure [bar]	Item no.: internal/external surface		
	[mm]	[inch]				Mech. polished, Ra ≤ 1.6/6.3 µm	Mech. polished, Ra ≤ 0.8/6.3 µm	Electro polished, Ra ≤ 0.6/3.2 µm
<b>Acc. SMS 3008, diaphragm material EPDM</b>								
Handwheel PPS/bonnet PPS								
25	1"	25.0	16.0	10	442 355	442 356	442 357	
40	1 1/2"	38.0	29.0	10	442 413	442 414	442 415	
50	2"	51.0	50.0	7	442 468	442 469	442 470	
Handwheel PPS/bonnet stainless steel								
25	1"	25.0	16.0	10	440 964	440 965	440 966	
40	1 1/2"	38.0	29.0	10	440 968	440 969	440 970	
50	2"	51.0	50.0	10	440 994	440 995	440 996	
<b>Acc. SMS 3008, diaphragm material PTFE/EPDM</b>								
Handwheel PPS/bonnet PPS								
25	1"	25.0	16.0	10	441 837	441 838	441 839	
40	1 1/2"	38.0	29.0	10	441 841	441 842	441 843	
50	2"	51.0	50.0	7	441 845	441 846	441 847	
Handwheel PPS/bonnet stainless steel								
25	1"	25.0	16.0	10	441 164	441 165	441 166	
40	1 1/2"	38.0	29.0	10	441 026	441 027	441 028	
50	2"	51.0	50.0	10	441 076	441 077	441 078	

**i** Further versions on requestPort connection  
Sterile threaded endsMaterial  
Seal: FKM, TFMAdditional  
Locking function (not for DN 8/10)

## Ordering chart for valves (other versions on request)

Body with Tri-Clamp® connection, acc. ISO 2852 - SMS 3017 and DIN 32676

	Port connection		External Ø [mm]	Kv-value water [m³/h]	Max. operating pressure [bar]	Item no.: internal/external surface		
	[mm]	[inch]				Mech. polished, Ra 5 1.6/6.3 µm	Mech. polished, Ra 5 0.8/6.3 µm	Electro polished, Ra 5 0.6/3.2 µm
<b>Acc. ISO 2852 - SMS 3017, diaphragm material EPDM</b>								
Handwheel PPS/bonnet PPS								
25	1"	50.5	16	10	442 371	442 372	442 373	
40	1 1/2"	50.5	29	10	442 429	442 430	442 431	
50	2"	64.0	50	7	442 484	442 485	442 486	
Handwheel PPS/bonnet stainless steel								
25	1"	50.5	16	10	440 998	440 999	441 000	
40	1 1/2"	50.5	29	10	441 002	441 003	441 004	
50	2"	64.0	50	10	441 006	441 007	441 008	
<b>Acc. ISO 2852 - SMS 3017, diaphragm material PTFE/EPDM</b>								
Handwheel PPS/bonnet PPS								
25	1"	50.5	16	10	441 849	441 850	441 851	
40	1 1/2"	50.5	29	10	441 853	441 854	441 855	
50	2"	64.0	50	7	441 857	441 858	441 859	
Handwheel PPS/bonnet stainless steel								
25	1"	50.5	16	10	441 134	441 135	441 136	
40	1 1/2"	50.5	29	10	441 188	441 189	441 190	
50	2"	64.0	50	10	440 984	440 985	440 986	
<b>Acc. DIN 32676, diaphragm material EPDM</b>								
Handwheel PPS/bonnet PPS								
15	1/2"	34.0	6.0	10	442 281	442 282	442 283	
20	3/4"	34.0	11.0	10	442 320	442 321	442 322	
25	1"	50.5	16.0	10	442 367	442 368	442 369	
40	1 1/2"	50.5	29.0	10	442 425	442 426	442 427	
50	2"	64.0	50.0	7	442 480	442 481	442 482	
Handwheel PPS/bonnet stainless steel								
15	1/2"	34.0	6.0	10	441 036	441 037	441 038	
20	3/4"	34.0	11.0	10	441 040	441 041	441 042	
25	1"	50.5	16.0	10	441 044	441 045	441 046	
40	1 1/2"	50.5	29.0	10	441 048	441 049	441 050	
50	2"	64.0	50.0	10	441 094	441 095	441 096	
<b>Acc. DIN 32676, diaphragm material PTFE/EPDM</b>								
Handwheel PPS/bonnet PPS								
15	1/2"	34.0	6.0	10	441 861	441 862	441 863	
20	3/4"	34.0	11.0	10	442 178	442 179	442 180	
25	1"	50.5	16.0	10	442 182	442 183	442 184	
40	1 1/2"	50.5	29.0	10	442 186	442 187	442 188	
50	2"	64.0	50.0	7	442 190	442 191	442 192	
Handwheel PPS/bonnet stainless steel								
15	1/2"	34.0	6.0	10	441 022	441 023	441 024	
20	3/4"	34.0	11.0	10	441 068	441 069	441 070	
25	1"	50.5	16.0	10	441 126	441 127	441 128	
40	1 1/2"	50.5	29.0	10	441 180	441 181	441 182	
50	2"	64.0	50.0	10	440 980	440 981	440 982	


**i Further versions on request**
 **Port connection**  
Sterile threaded ends

 **Material**  
Seal: FKM, TFM

 **Additional**  
Locking function (not for DN 8/10)

## Ordering chart for valves (other versions on request)

## Body with Tri-Clamp® connection, acc. BS 4825

	Port connection		External Ø [mm]	Kv-value water [m³/h]	Max. operating pressure [bar]	Item no.: internal/external surface		
	[mm]	[inch]				Mech. polished, Ra ≤ 1.6/6.3 µm	Mech. polished, Ra ≤ 0.8/6.3 µm	Electro polished, Ra ≤ 0.6/3.2 µm
<b>Acc. BS 4825, diaphragm material EPDM</b>								
Handwheel PPS/bonnet PPS								
8	1/4"	25.0	1.0	10	442 234	442 235	442 236	
10	3/8"	25.0	1.0	10	442 242	442 243	442 244	
15	1/2"	25.0	6.0	10	442 324	442 325	442 326	
25	1"	50.5	16.0	10	442 375	442 376	442 377	
40	1 1/2"	50.5	29.0	10	442 433	442 434	442 435	
50	2"	64.0	50.0	7	442 488	442 489	442 490	
Handwheel PPS/bonnet stainless steel								
8	1/4"	25.0	1.0	10	441 098	441 099	441 100	
10	3/8"	25.0	1.0	10	441 102	441 103	441 104	
15	1/2"	25.0	6.0	10	441 106	441 107	441 108	
25	1"	50.5	16.0	10	441 148	441 149	441 150	
40	1 1/2"	50.5	29.0	10	441 152	441 153	441 154	
50	2"	64.0	50.0	10	441 156	441 157	441 158	
<b>Acc. BS 4825, diaphragm material PTFE/EPDM</b>								
Handwheel PPS/bonnet PPS								
8	1/4"	25.0	1.0	10	442 194	442 195	442 196	
10	3/8"	25.0	1.0	10	442 198	442 199	442 200	
15	1/2"	25.0	6.0	10	442 202	442 203	442 204	
25	1"	50.5	16.0	10	442 206	442 207	442 208	
40	1 1/2"	50.5	29.0	10	442 210	442 211	442 212	
50	2"	64.0	50.0	7	442 214	442 215	442 216	
Handwheel PPS/bonnet stainless steel								
8	1/4"	25.0	1.0	10	441 018	441 019	441 020	
10	3/8"	25.0	1.0	10	441 064	441 065	441 066	
15	1/2"	25.0	6.0	10	441 122	441 123	441 124	
25	1"	50.5	16.0	10	441 176	441 177	441 178	
40	1 1/2"	50.5	29.0	10	441 056	441 057	441 058	
50	2"	64.0	50.0	10	441 114	441 115	441 116	

**i Further versions on request**

**Port connection**  
Sterile threaded ends



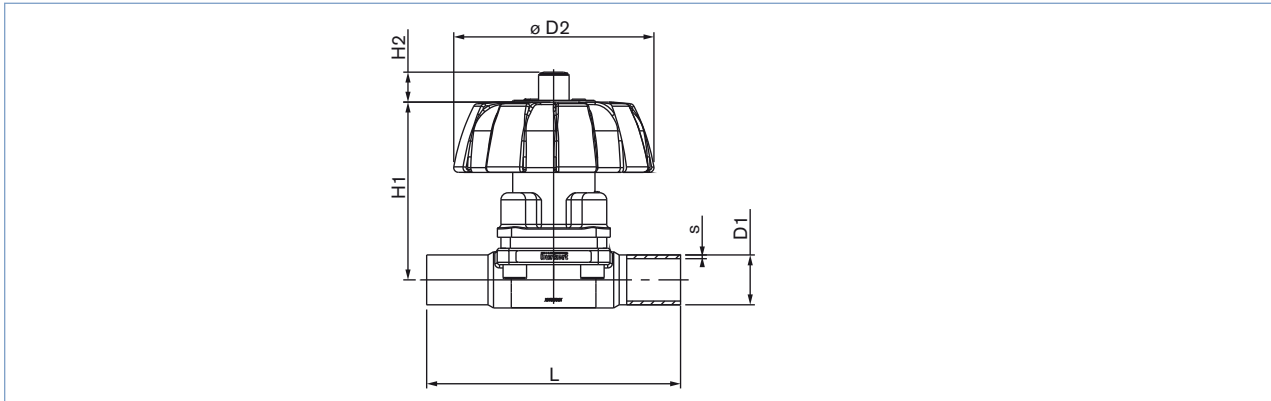
**Material**  
Seal: FKM, TFM



**Additional**  
Locking function (not for DN 8/10)

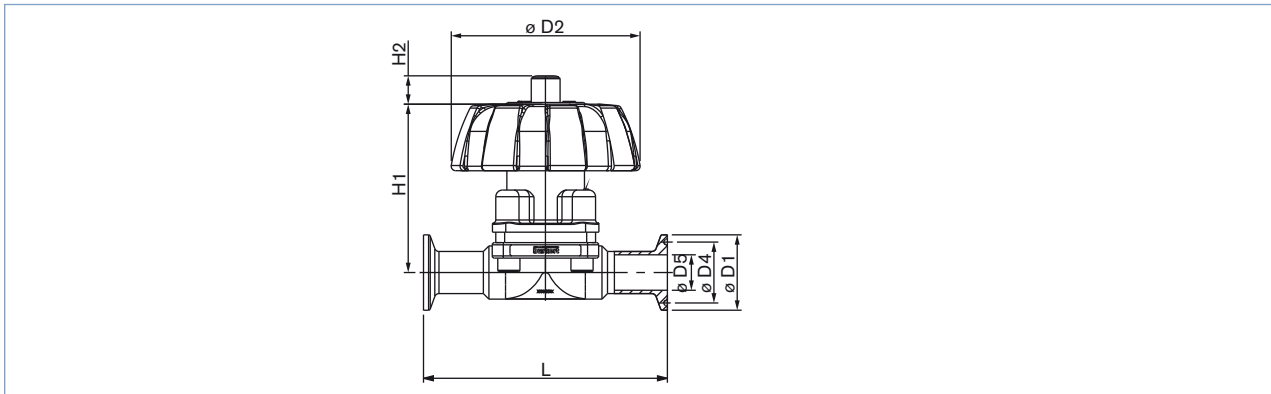
## Dimensions [mm]

## Body with weld end



Port connection		ØD2	H1	H2	L	EN ISO 1127 / ISO 4200		DIN 11850 Serie 0		Serie 2		SMS 3008	
[mm]	[inch]					ØD1	s	ØD1	s	ØD1	s	ØD1	s
4	–	35.0	56.0	–	90.0	–	–	6.0	1.0	–	–	–	–
6	–	35.0	56.0	–	90.0	–	–	8.0	1.0	–	–	–	–
8	1/4"	35.0	56.0	–	90.0	13.5	1.6	–	–	–	–	–	–
10	3/8"	35.0	56.0	–	90.0	17.2	1.6	–	–	13.0	1.5	–	–
15	1/2"	80.0	85.0	7.0	110.0	21.3	1.6	–	–	19.0	1.5	–	–
20	3/4"	80.0	93.0	11.0	119.0	26.9	1.6	–	–	23.0	1.5	–	–
25	1"	80.0	94.0	12.0	129.0	33.7	2.0	–	–	29.0	1.5	25.0	1.2
32	1 1/4"	114.0	116.0	19.0	161.0	42.4	2.0	–	–	–	–	38.0	1.2
40	1 1/2"	114.0	116.0	19.0	161.0	48.3	2.0	–	–	41.0	1.5	38.0	1.2
50	2"	114.0	133.0	25.0	192.0	60.3	2.0	–	–	53.0	1.5	51.0	1.2

## Body with Tri-Clamp® connection



Port connection		ØD2	H1	H2	ISO 2852 – SMS 3017				DIN 32676				BS 4825			
[mm]	[inch]				ØD1	ØD4	ØD5	L	ØD1	ØD4	ØD5	L	ØD1	ØD4	ØD5	
8	1/4"	35.0	56.0	–	–	–	–	–	–	–	–	–	89.0	25.0	20.22	7.1
10	3/8"	35.0	56.0	–	–	–	–	–	–	–	–	–	89.0	25.0	20.22	10.3
15	1/2"	80.0	85.0	7.0	–	–	–	–	110.0	34.0	27.5	16.0	102.0	25.0	20.22	16.7
20	3/4"	80.0	93.0	11.0	–	–	–	–	119.0	34.0	27.5	20.0	–	–	20.22	–
25	1"	80.0	94.0	12.0	129.0	50.5	43.5	22.6	129.0	50.5	43.5	26.0	114.0	50.5	43.5	22.2
40	1 1/2"	114.0	116.0	19.0	161.0	50.5	43.5	35.6	161.0	50.5	43.5	38.0	140.0	50.5	43.5	34.9
50	2"	114.0	133.0	25.0	192.0	64.0	56.5	48.6	192.0	64.0	56.5	50.0	159.0	64.0	56.5	47.6

To find your nearest Bürkert facility, click on the orange box →



In case of special application conditions, please consult for advice.

We reserve the right to make technical changes without notice.  
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## Zero Deadleg T-Valve, manually operated, stainless steel block material, DN 8-50

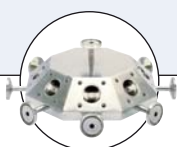


- Fully integrated in Burkert's Process Control Systems
- Zero dead volume
- Monoblock – no welds
- Quality certifications FDA/A

Type 3234 can be combined with...



**Type 8034**  
Flow meter



**Multi-Port Block**



**Type 3233/2031**  
Tandem valve

The Burkert Zero Deadleg T Valve system is designed for control of ultra pure, sterile, aggressive or abrasive fluids. Enables especially optimal sampling, draining or diverting of critical process fluids. The valve body is machined from a single piece of block material (monoblock – no weld seam).

The high quality diaphragms separate hermetically critical fluids from the actuator. The manual actuator in PPS or stainless steel can be sterilized.

### Applications

- Pharma
- Biotechnology
- Food Industry

### Technical data

<b>Body materials</b>	<ul style="list-style-type: none"> <li>▪ Monoblock stainless steel</li> <li>▪ 316 L/1.4435/BN2</li> <li>Fe &lt; 0.5%/C ≤ 0.03%</li> </ul>
<b>Actuator materials</b> Actuator and bonnet	PPS, stainless steel 1.4581
<b>Seal material</b>	EPDM, PTFE/EPDM
<b>Media</b>	Neutral gases and liquids, high purity, sterile, aggressive or abrasive
<b>Viscosity</b>	Up to viscous
<b>Surface qualities</b> (average roughness) Internal mechanical polished Internal electro polished Internal mirror finish <sup>1)</sup>	Ra ≤ 0.5 μm (20 μlnch or 240 grit) Ra ≤ 0.4 μm (16 μlnch or 280 grit) Ra ≤ 0.25 μm (10 μlnch or 330 grit)
<b>Temperatures</b> Media Ambient	-10°C to +130°C (briefly up to +150°C) +5°C to +140°C
<b>Port connections</b> Weld end acc. to  Clamp acc. to	<ul style="list-style-type: none"> <li>▪ EN ISO 1127/ISO 4200</li> <li>▪ DIN 11850 Series 0 to 3</li> <li>▪ ASME BPE</li> <li>▪ SMS 3008</li> <li>▪ BS 4825</li> <li>▪ ISO 2852</li> <li>▪ ASME BPE</li> <li>▪ DIN 32676</li> </ul>
<b>Installation</b>	As required
<b>Option</b> (on request, not for DN 8/10)	Locking function

<sup>1)</sup> Internal Ra < 0.1 μm/4 μlnch/500 Grit: on request



## Technical data, continued

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### Specifications

Orifice diaphragm [mm]	Kv value water (m <sup>3</sup> /h)	Max. operating pressure (medium) for seal material EPDM and PTFE/EPDM [bar]
8	1.0	10
10	1.0	10
15	6.0	10
20	11.0	10
25	16.0	10
40	29.0	10
50	50.0	10 <sup>1)</sup>

<sup>1)</sup> Max. operating pressure 7 bar for bonnet and manual actuator in PPS

Orifice DN 65, DN 80 and DN 100 on request

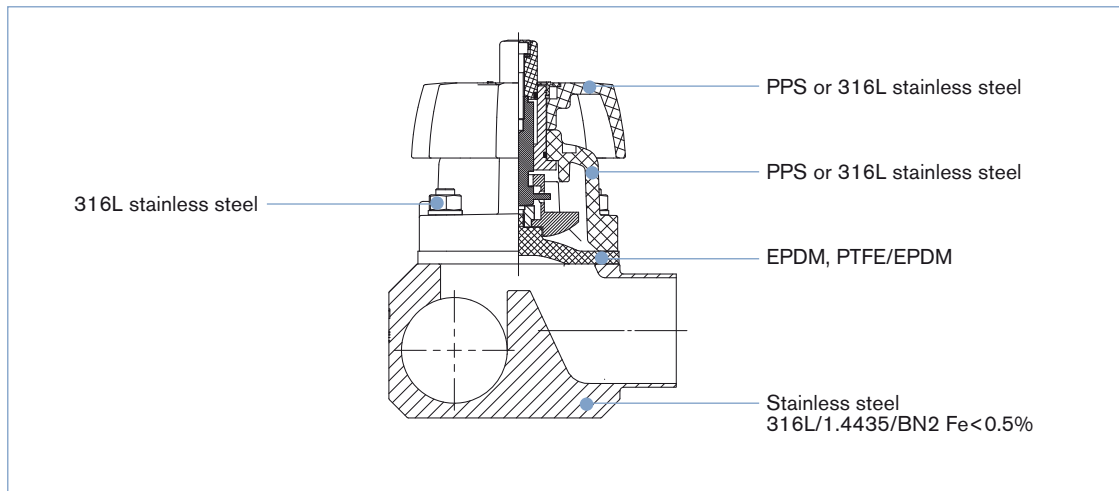
► Various other Clamp and Sterile threaded end connection combination are available, please consult for advice.

## Approvals/certifications

- Certification of Conformity for Raw Material EN-ISO 10204 3.1
- Attestation of compliance with the order EN-ISO 10204 2.1
- Test report EN-ISO 10204 2.2
- 3A Certification
- Certification of Conformity for Pickling and Electropolishing Processes
- Certification of Conformity for the Surface Quality DIN4762-DIN4768-ISO/4287/1
- Attestation of compliance with FDA CFR No. 21.177.1550 for PTFE/EPDM and TFM/EPDM and 21.177.2600 for EPDM
- USP CLASS VI certification for EPDM and PTFE diaphragm
- Test Certification and Conformity Certification for the Final Assembly of Diaphragm Valves
- ISO 9001 Certification

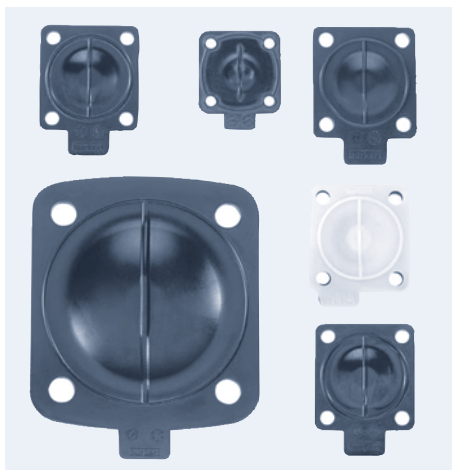
Note: Retrospective manufacturing certification for process diaphragm valves can not be made, therefore please notify when ordering.

## Materials



## Example of available diaphragm materials

Developed to handle the unique challenges of hygienic and sterile applications, Bürkert offers diaphragms with precise material formula and physical tolerances. Bürkert diaphragms are available in a wide range of materials which have been proven in food & beverage, biotechnology, pharmaceutical and cosmetic industry applications. Diaphragms are tested during development and production to ensure reliability in critical processing environments.



- EPDM (Ethylene Propylene Rubber)
- PTFE/EPDM
- TFM/EPDM
- FKM
- PTFE/FKM
- NBR

## Dimensions [mm]

Welded body acc. to EN ISO 1127/ISO 4200

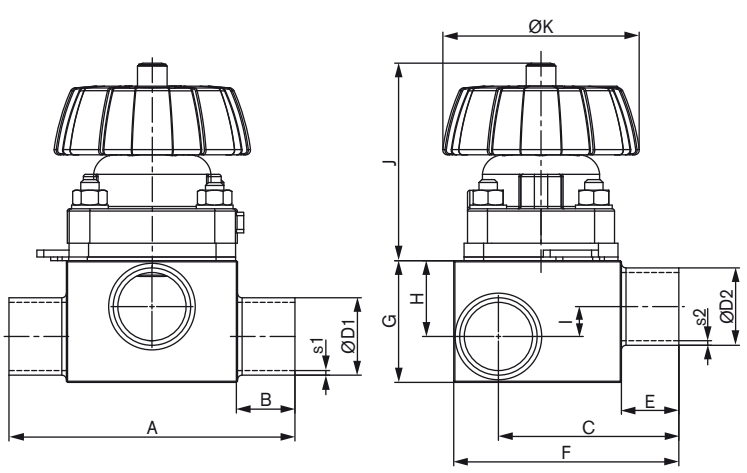
**For all actuators**

Orifice	J	ØK
8	48	34
15	77	85
20	84	85
25	86	85
40	105	114
50	120	114

Orifice	ØD1	s1	ØD2	s2	A	B	C	E	F	G	H	I
8	17.2	1.6	17.2	1.6	78.0	20	49.00	20	60	29	18	8.0
	21.3	1.6	17.2	1.6	78.0	20	51.05	20	64	34	21	11.0
	26.9	1.6	13.5	1.6	88.0	25	53.85	20	70	38	23	13.0
	33.7	2.0	13.5	1.6	88.0	25	56.85	20	76	45	26	16.0
	42.4	2.0	13.5	1.6	88.0	25	61.20	20	84	52	29	19.0
	42.4	2.0	17.2	1.6	88.0	25	61.20	20	84	52	29	19.0
15	48.3	2.0	13.5	1.6	88.0	25	64.15	20	90	57	31	21.0
	13.5	1.6	13.5	1.6	93.0	20	52.05	20	70	27	17	4.5
	17.2	1.6	13.5	1.6	93.0	20	53.90	20	70	31	18	4.5
	21.3	1.6	21.3	1.6	93.0	20	55.95	20	71	35	21	6.5
	26.9	1.6	21.3	1.6	103.0	25	58.75	20	78	42	25	11.5
	33.7	2.0	21.3	1.6	103.0	25	62.75	20	82	47	28	14.5
	42.4	2.0	21.3	1.6	103.0	25	67.10	20	91	56	32	18.5
	48.3	2.0	13.5	1.6	103.0	25	69.05	20	97	61	34	20.5
	48.3	2.0	21.3	1.6	103.0	25	69.05	20	97	63	35	21.5
	60.3	2.0	13.5	1.6	113.0	30	76.05	20	109	71	38	24.5
	60.3	2.0	21.3	1.6	113.0	30	76.05	20	109	72	38	24.5
20	76.1	2.0	13.5	1.6	113.0	30	83.95	20	125	85	44	30.5
	76.1	2.0	21.3	1.6	113.0	30	83.95	20	125	85	44	30.5
	88.9	2.3	13.5	1.6	113.0	30	90.05	20	140	99	52	38.5
	26.9	1.6	26.9	1.6	114.0	25	70.25	25	88	42	24	6.0
	33.7	2.0	26.9	1.6	114.0	25	73.25	25	94	48	28	10.0
	42.4	2.0	26.9	1.6	114.0	25	78.60	25	102	57	33	15.0
	48.3	2.0	26.9	1.6	114.0	25	80.55	25	108	63	35	17.0
25	60.3	2.0	26.9	1.6	124.0	30	86.55	25	121	74	40	22.0
	76.1	2.0	26.9	1.6	124.0	30	94.45	25	136	86	45	27.0
	33.7	2.0	33.7	2.0	124.5	25	78.55	25	98	53	33	13.0
	42.4	2.0	33.7	2.0	124.5	25	82.90	25	107	62	38	18.0
40	76.1	2.0	33.7	2.0	134.5	30	99.75	25	142	94	52	32.0
	42.4	2.0	42.4	2.0	152.0	25	97.00	25	122	62	37	8.4
	48.3	2.0	48.3	2.0	152.0	25	99.95	25	128	68	41	12.4
	60.3	2.0	48.3	2.0	162.0	30	105.95	25	140	82	48	19.4
50	76.1	2.0	48.3	2.0	162.0	30	113.85	25	155	97	55	26.4
	60.3	2.0	60.3	2.0	188.0	30	120.15	30	154	82	48	12.5
	76.1	2.0	60.3	2.0	188.0	30	128.05	30	172	100	56	20.5
	88.9	2.3	60.3	2.0	188.0	30	134.15	30	183	110	61	25.5

## Dimensions [mm], continued

Welded body acc. to ASME BPE



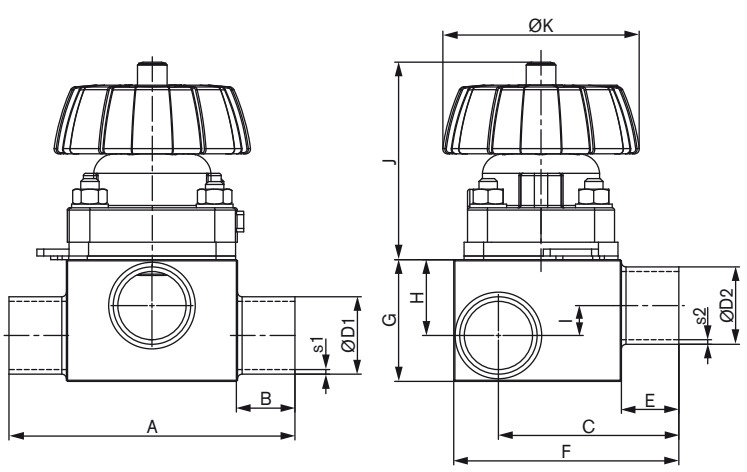
**For all actuators**

Orifice	J	ØK
8	48	34
15	77	85
20	84	85
25	86	85
40	105	114
50	120	114

Orifice	ØD1	s1	ØD2	s2	A	B	C	E	F	G	H	I
15	12.70	1.65	12.70	1.65	93.0	20	51.60	20	70	27	13.5	0.0
	19.05	1.65	12.70	1.65	103.0	20	54.78	20	70	31	18.5	5.0
	25.40	1.65	12.70	1.65	103.0	20	57.95	20	75	40	24	10.5
	38.10	1.65	12.70	1.65	103.0	25	64.30	20	88	54	31	17.5
	50.80	1.65	12.70	1.65	113.0	30	71.65	20	100	64	35	21.5
	63.50	1.65	12.70	1.65	113.0	30	78.80	20	113	73	38	24.5
20	19.05	1.65	19.05	1.65	114.0	25	66.28	25	85	36	18	0.0
	25.40	1.65	19.05	1.65	114.0	25	69.45	25	90	40	24	6.0
	38.10	1.65	19.05	1.65	114.0	25	75.80	25	98	53	31	13.0
	50.80	1.65	19.05	1.65	124.0	30	82.15	25	111	66	37	19.0
	63.50	1.65	19.05	1.65	124.0	30	88.50	25	123	75	40	22.0
	76.20	1.65	19.05	1.65	124.0	30	94.85	25	137	87	45	27.0
25	25.40	1.65	25.40	1.65	124.5	25	74.75	25	95	42	26	6.0
	38.10	1.65	25.40	1.65	124.5	25	81.10	25	103	58	36	16.0
	50.80	1.65	25.40	1.65	134.5	30	87.45	25	120	75	44	24.0
	63.50	1.65	25.40	1.65	134.5	30	93.80	25	130	83	48	28.0
	76.20	1.65	25.40	1.65	134.5	30	100.15	25	142	94	52	32.0
40	38.10	1.65	38.10	1.65	152.0	25	95.20	25	121	58	35	6.4
	50.80	1.65	38.10	1.65	162.0	30	101.55	25	131	72	43	14.4
50	50.80	1.65	50.80	1.65	188.0	30	115.75	30	145	71	42	6.5
	63.50	1.65	63.50	1.65	188.0	30	122.10	30	158	86	50	14.5

## Dimensions [mm], continued

Welded body acc. to DIN 11850 Series 0 and 2



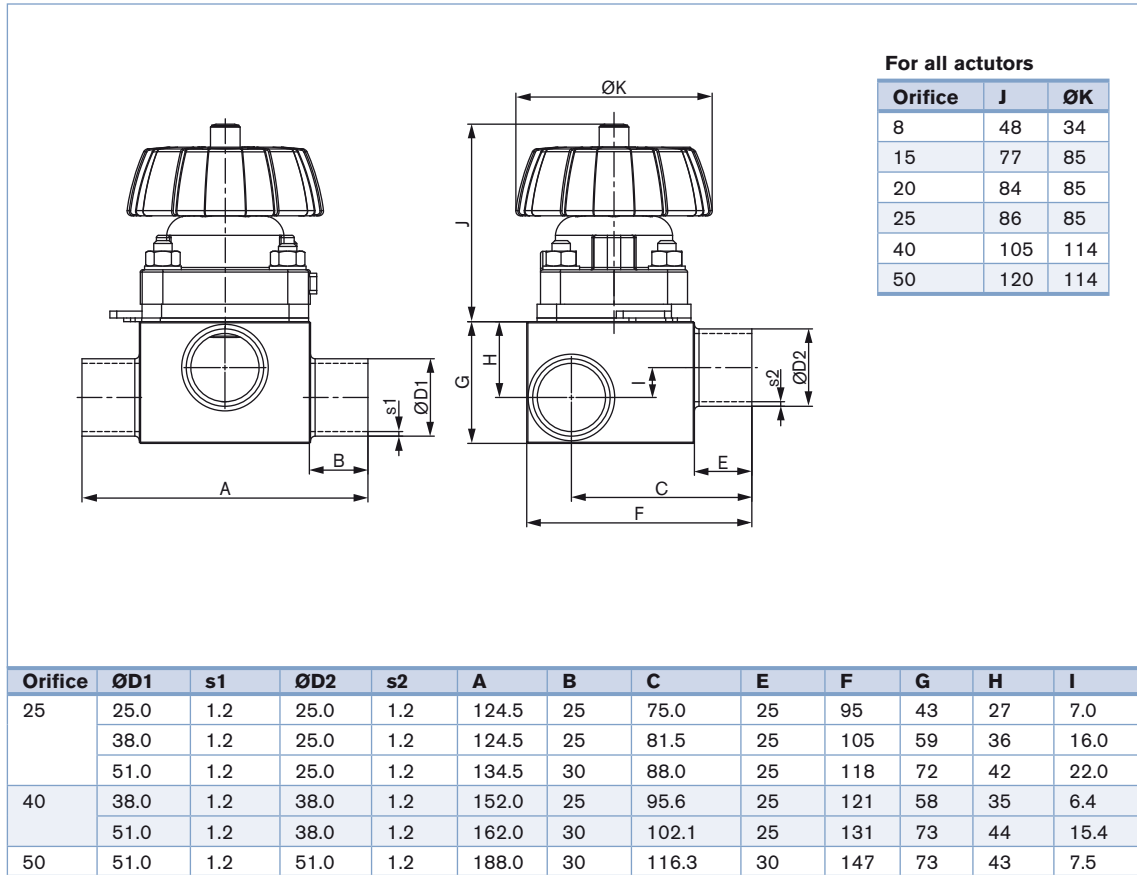
**For all actuators**

Orifice	J	ØK
8	48	34
15	77	85
20	84	85
25	86	85
40	105	114
50	120	114

Orifice	ØD1	s1	ØD2	s2	A	B	C	E	F	G	H	I
<b>Series 0</b>												
08	6.0	1.0	6.0	1.0	78.0	20	43.0	20	60	17	6.5	0.0
	40.0	1.5	6.0	1.0	88.0	25	60.5	20	83	51	29	19.0
	40.0	1.5	10.0	1.0	88.0	25	60.5	20	83	51	29	19.0
	52.0	1.5	6.0	1.0	98.0	30	66.5	20	95	60	32	22.0
25	28.0	1.5	28.0	1.5	124.5	25	76.2	25	95	46	29	9.0
	52.0	1.5	28.0	1.5	134.5	30	88.2	25	117	71	42	22.0
40	28.0	1.5	34.0	1.5	152.0	25	90.3	25	122	58	32	3.4
	52.0	1.5	34.0	1.5	162.0	30	102.3	25	132	75	45	16.4
50	52.0	1.5	52.0	1.5	188.0	30	116.5	30	147	73	43	7.5
<b>Series 2</b>												
15	19.0	1.5	19.0	1.5	93.0	20	54.9	20	70	33	20	6.5
	23.0	1.5	19.0	1.5	103.0	20	56.9	20	72	37	22.5	8.5
	35.0	1.5	19.0	1.5	103.0	25	62.9	20	84	50	29	14.5
	41.0	1.5	19.0	1.5	103.0	25	65.9	20	91	56	32	18.5
20	23.0	1.5	23.0	1.5	114.0	25	68.4	25	88	42	21	3.0
	35.0	1.5	23.0	1.5	114.0	25	74.4	25	95	50	29	11.0
	41.0	1.5	23.0	1.5	114.0	25	77.4	25	101	56	32	14.0
25	29.0	1.5	29.0	1.5	124.5	25	76.7	25	98	48	30	10.0
40	41.0	1.5	41.0	1.5	152.0	25	96.8	25	121	62	37	8.4
50	53.0	1.5	53.0	1.5	188.0	30	117.0	30	147	74	44	8.5

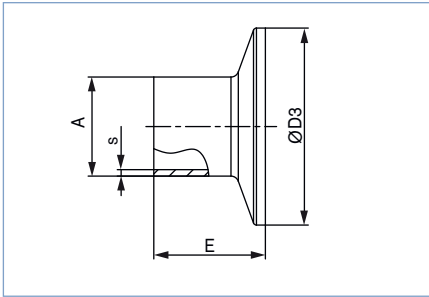
## Dimensions [mm], continued

Welded body acc. to SMS 3008



## Dimensions [mm], continued

## Clamp body



## ASME BPE

Orifice		A	s	ØD3	E
[mm]	[inch]				
08	1/4"	6.35	0.89	25.0	28.6
10	3/8"	9.53	0.89	25.0	28.6
15	1/2"	12.7	1.65	25.0	28.6
20	3/4"	19.05	1.65	25.0	28.6
25	1"	25.4	1.65	50.5	28.6
40	1 1/2"	38.1	1.65	50.5	28.6
50	2"	50.8	1.65	64.0	28.6
65	2 1/2"	63.5	1.65	77.5	28.6
80	3"	76.2	1.65	91.0	28.6
100	4"	101.6	2.11	119.0	28.6

## DIN 32676

Orifice [mm]	A	s	ØD3	E
10	1.5	34.0	18	18
15	19	1.5	34.0	18
20	23	1.5	34.0	18
25	29	1.5	50.5	21.5
32	35	1.5	50.5	21.5
40	41	1.5	50.5	21.5
50	53	1.5	64.0	21.5
65	70	2.0	91.0	28

## ISO 2852 for pipe ISO 4200

Orifice [mm]	A	s	ØD3	E
8	13.5	1.6	25.0	28.6
8	13.5	1.6	34.0	28.6
10	17.2	1.6	34.0	28.6
15	21.3	1.6	34.0	28.6
15	21.3	1.6	50.5	28.6
20	26.9	1.6	50.5	28.6
25	33.7	2	50.5	28.6
32	42.4	2	50.5	28.6
40	48.3	2	64.0	28.6
50	60.3	2	77.5	28.6
65	76.1	2	91.0	28.6
100	114.3	2.3	130.0	28.6

## SMS

Orifice [mm]	A	s	ØD3	E
25	25	1.2	50.5	21.5
40	38	1.2	50.5	28.6
50	51	1.2	64.0	28.6





Valve features

Example

15 AB B VH SA42 SA42 D050 NO15 + NO14 + HA24

Specification key

Please make a choice

ORIFICE [mm] (diaphragm)

08	(only with DO58)
15	
20	
25	
40	
50	
80	
100	

SEAL MATERIAL

AB	EPDM in food quality
EA	PTFE
FF	FPM (Viton)

PRODUCTION OF BODY

B	Monoblock
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BODY MATERIAL

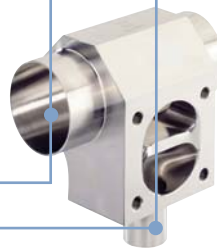
VH	AISI 316L
VI	1.4435 BN2/ASME

VARIABLE CODES

Surface finish External		
NO03	Ext. Mirror finished Ra=0.25µm	
NO09	Ext. Electro polished RA=3.2µm	
NO15	Ext. Electro polished Ra=0.8µm	
NO19	Ext. Mech. polished Ra=1.6µm	
NO22	Ext. Glass beaded Ra=3.2µm	standard
Surface finish Internal		
NO07	Int. Mirror finished Ra=0.25µm	
NO10	Int. Electro polished Ra=0.8µm	
NO14	Int. Mech. polished Ra=0.5µm	standard
NO17	Int. Electro finished Ra=0.4µm	
NO20	Int. Electro polished Ra=0.25µm	
Handwheel		
HA24	with locking function	

ACTUATOR VERSION

D050	Top PPS Handwheel PPS	not possible with orifice 08
D058	Top stainless steel, Handwheel PPS for T-valve	



Flange 1 (main tube) connection

Flange 2

Port connection weld end

Orifice [mm]	EN ISO 1127/ ISO 4200	SMS 3008	DIN 11850 Series 0	Series 1	Series 2	Series 3	BS 4825	ASME BPE	JIS Sanitary	JIS Utility
4			SC40=6x1.0							
6			SC41=8x1.0							
8	SA40=13.5x1.6		SC42=10x1.0				SODB=6.35x1.2	SA90=6.35x0.89	SA70=13.8x1.65	
10	SA41=17.2x1.6			SF40=12x1.0	SD40=13x1.5	SE40=14x2.0	SODC=9.53x1.2	SA91=9.53x0.89	SA71=17.3x1.65	
15	SA42=21.3x1.6		SC43=18x1.5	SF41=18x1.0	SD42=19x1.5	SE42=20x2.0	SODD=12.7x1.2	SA92=12.7x1.65	SA72=21.7x2.1	
20	SA43=26.9x1.6		SC44=22x1.5	SF42=22x1.0	SD43=23x1.5	SE43=24x2.0	SODE=19.05x1.2	SA93=19.05x1.65	SA76=27.2x2.1	SA80=27.2x2.1
25	SA44=33.7x2.0	SA60=25.0x1.2	SC45=28x1.5	SF43=28x1.0	SD44=29x1.5	SE44=30x2.0	SODF=25.4x1.65	SODF=25.4x1.65	SA73=25.4x1.2	SA81=34x2.0
32	SA45=42.4x2.0		SC46=34x1.5	SF44=34x1.0	SD45=35x1.5	SE45=36x2.0				SA83=42.7x2.0
40	SA46=48.3x2.0	SA62=38.0x1.2	SC47=40x1.5	SF45=40x1.0	SD46=41x1.5	SE46=42x2.0	SODH=38.1x1.65	SODH=38.1x1.65	SA74=38.1x1.2	SA83=48.6x2.0
50	SA47=60.3x2.0	SA63=51.0x1.2	SC48=52x1.5	SF46=52x1.0	SD47=53x1.5	SE47=54x2.0	SODI=50.8x1.65	SODI=50.8x1.65	SA75=50.8x1.5	SA84=60.5x2.0
65	SA48=76.1x2.0	SA64=63.5x1.6			SD48=70x2.0		SA64=63.5x1.65	SA64=63.5x1.65		
80	SA49=88.9x2.3	SA65=76.1x1.6			SD49=85x2.0		SA65=76.2x1.65	SA65=76.2x1.65		
100	SA39=114.3x2.3	SA66=101.6x2.0			SD50=104x2.0		SA66=101.6x2.11	SA66=101.6x2.11		

Port connection clamp

Orifice DN [mm]	ISO 2852 SMS 3017	ASME BPE	DIN 32676
8	TC51=Clamp 34 - for tube ISO 4200	TG50=Clamp 25 - Tube 6.35x0.89	
10	TC41=Clamp 34 - for tube ISO 4200	TG01=Clamp 25 - Tube 9.53x0.89	TD41=Clamp 34 - Tube 13x1.5
15	TC42=Clamp 34 - for tube ISO 4200	TG02=Clamp 25 - Tube 12.7x1.65	TD42=Clamp 34 - Tube 19x1.5
20	TC43=Clamp 50.5 - for tube ISO 4200	TG03=Clamp 25 - Tube 19.05x1.65	TD43=Clamp 34 - Tube 23x1.5
25	TC44=Clamp 50.5 - for tube ISO 4200	TG04=Clamp 50.5 - Tube 25.4x1.65	TD44=Clamp 50.5 - Tube 29x1.5
40	TC46=Clamp 64 - for tube ISO 4200	TG05=Clamp 50.5 - Tube 38.1x1.65	TD46=Clamp 50.5 - Tube 41x1.5
50	TC47=Clamp 77.5 - for tube ISO 4200	TG06=Clamp 64 - Tube 50.8x1.65	TD47=Clamp 64 - Tube 53x1.5
65	TC48=Clamp 91 - for tube ISO 4200	TG07=Clamp 77.5 - Tube 63.5x1.65	TD48=Clamp 91 - Tube 70x2
80	-	TG08=Clamp 91 - Tube 76.2x1.65	-
100	TC50=Clamp 130 - for tube ISO 4200	TG09=Clamp 119 - Tube 101.6x2.11	-


In case of special application conditions, please consult for advice.

Subject to alteration.  
© Christian Bürkert GmbH & Co. KG

0902/5\_EU-en\_00891854



## Tank bottom valve, manually operated, stainless steel block material

- Fully integrated in Bürkert's Process Control Systems
- Monoblock – no welds
- Quality certifications 

Type 3235 can be combined with...



**Type 8034**  
Flow meter



**Type 2033**  
Tank bottom valve



**Type 2103**  
Diaphragm valve

The Bürkert Tank Bottom Valve system is designed for control of ultra pure, sterile, aggressive or abrasive fluids. Enables especially optimal filling and emptying vessels with less dead leg.

The valve body consists of a block with no weld seam, machined out of high quality stainless steel. The tank bottom valve has two welding bevels to ease the welding and valve positioning operations.

The high quality diaphragms separate hermetically critical fluids from the actuator. The manual actuator in PPS or stainless steel can be sterilized.

Technical data			
<b>Orifice</b>	DN 15-100		
<b>Body materials</b>	Stainless steel 1.4435BN2 / ASME BPE Fe < 0,5% / C ≤ 0,03%		
<b>Diaphragm materials</b>	EPDM, PTFE/EPDM, advanced PTFE		
<b>Actuator materials</b>	PPS (PA on request)		
<b>Pilot air ports</b>	Stainless steel 1.4305		
<b>Surface finish</b>	Ra [µm]	Ra [µlnch]	Ra [Grit #]
	internal	internal	internal
satin finished	0.5	20	240
electro polished	0.4	16	280
mirror finished <sup>1)</sup>	0.25	10	330
<b>Media temperature</b>	-10 °C to +130 °C (briefly up to +150 °C)		
<b>Ambient temperature</b>	+5 °C to +140 °C		
Actuator size < 100 mm	+5 °C to +90 °C (briefly up to +140 °C)		
Actuator size >_100 mm	(-10 °C to +60 °C with PA actuator)		
<b>Port connections</b>			
<b>Weld end</b> acc. to	<ul style="list-style-type: none"> <li>▪ EN ISO 1127 / ISO 4200</li> <li>▪ DIN 11850 RG2</li> <li>▪ SMS 3008</li> <li>▪ ASME BPE</li> <li>▪ BS 4825</li> </ul>		
<b>Clamp</b> acc. to	<ul style="list-style-type: none"> <li>▪ ISO 2852</li> <li>▪ ASME BPE</li> <li>▪ DIN 32676</li> </ul>		

<sup>1)</sup>Internal Ra < 0.1 µm/4 µlnch/500 Grit: on request

## Technical data, continued

Orifice DN diaphragm [mm]	Kv-value water [m <sup>3</sup> /h]	Max. operating pressure (medium) for seal material EPDM and PTFE/EPDM [bar]
8	1.0	10
15	6.0	10
20	11.0	10
25	16.0	10
40	29.0	10
50	50.0	10 <sup>1)</sup>
80	160.0	10
100	235.0	5

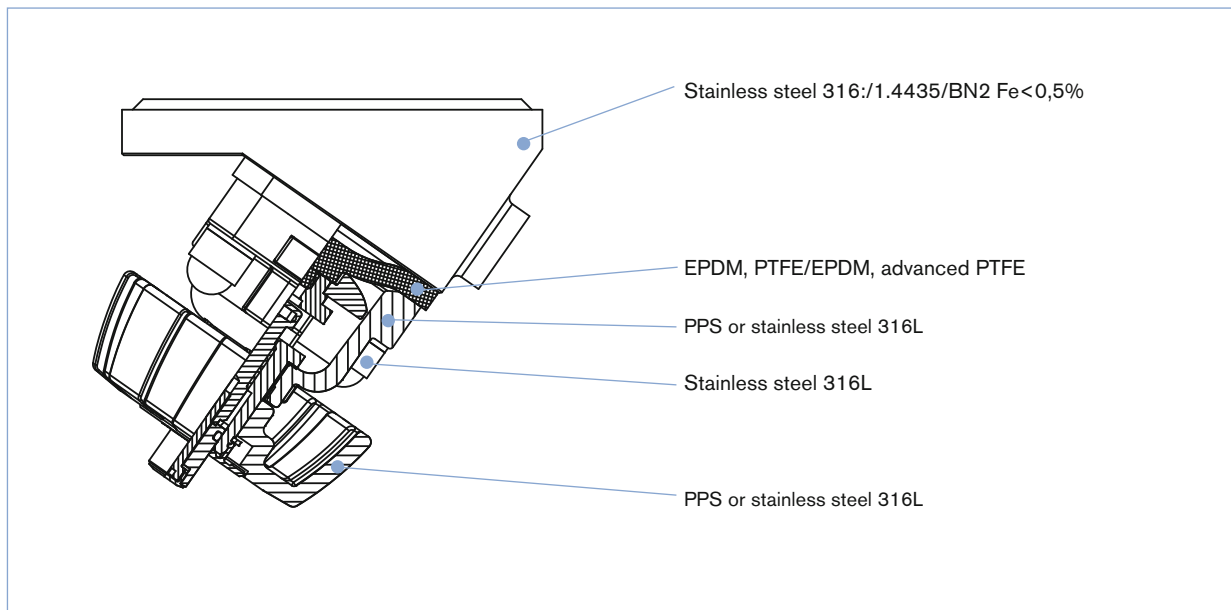
<sup>1)</sup>Max. operating pressure 7 bar for bonnet and manual actuator in PPS.

## Approvals/certifications

- Certification of Conformity for Raw Material EN-ISO 10204 3.1
- Attestation of compliance with the order EN-ISO 10204 2.1
- Test report EN-ISO 10204 2.2
- 3A Certification on request
- Certification of Conformity for Pickling and Electropolishing Processes
- Certification of Conformity for the Surface Quality DIN4762-DIN4768-ISO/4287/1
- Attestation of compliance with FDA CFR No. 21.177.1550 for PTFE/EPDM and advanced PTFE/EPDM and 21.177.2600 for EPDM
- Test Certification and Conformity Certification for the Final Assembly of Diaphragm Valves
- ISO 9001 Certification

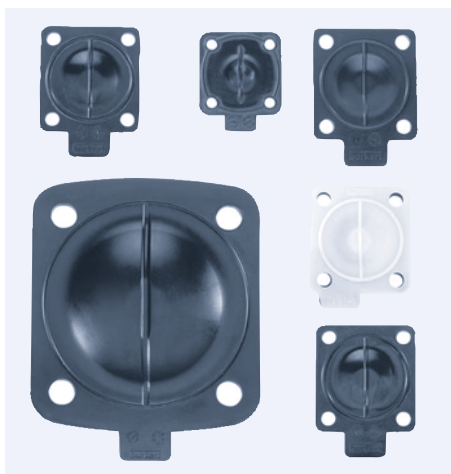
Note: Retrospective manufacturing certification for process diaphragm valves can not be made, therefore please notify when ordering.

## Materials



## Example of available diaphragm materials

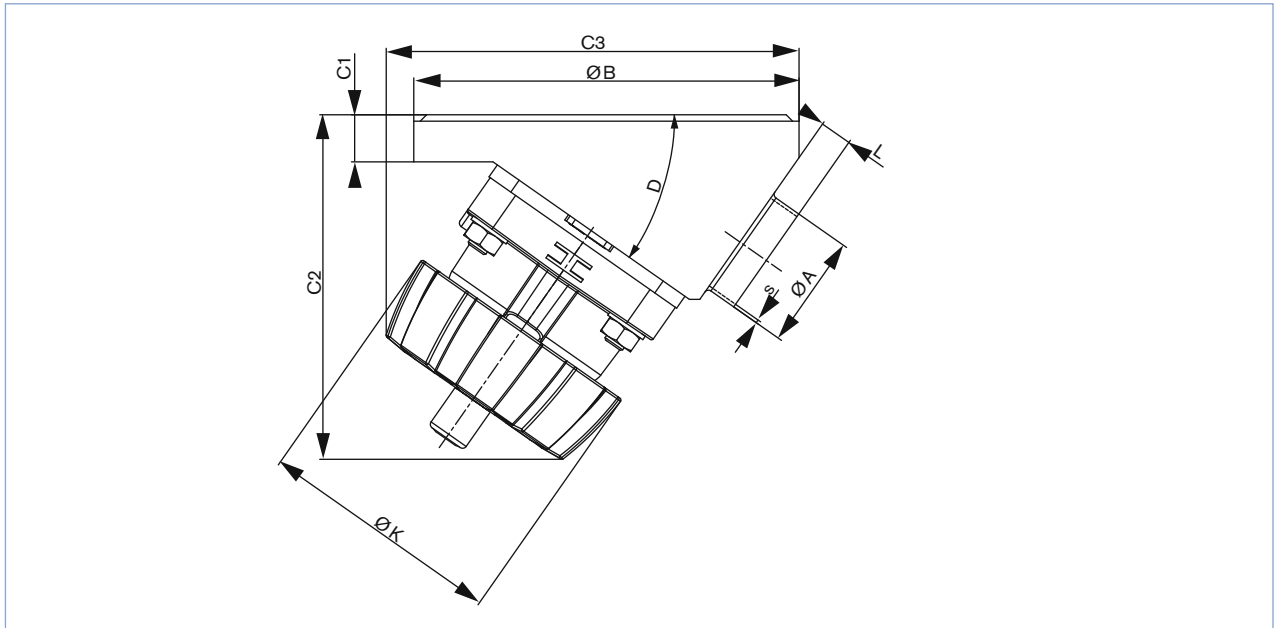
Developed to handle the unique challenges of hygienic and sterile applications, Bürkert offers diaphragms with precise material formula and physical tolerances. Bürkert diaphragms are available in a wide range of materials which have been proven in food & beverage, biotechnology, pharmaceutical and cosmetic industry applications. Diaphragms are tested during development and production to ensure reliability in critical processing environments.



- EPDM (Ethylene Propylene Rubber)
- PTFE/EPDM
- advanced PTFE/EPDM
- FKM
- PTFE/FKM
- NBR

## Dimensions [mm]

## Body with weld end



## EN ISO 1127 / ISO 4200

Orifice seat [mm]	Port connection [mm]	øA	s	øB	C1	C2	C3	D	øK	L
08	08	13.5	1.6	50	8	65	65	35°	34	5
15	15	21.3	1.6	65	12	103	103	35°	85	3
				85			109			8
20	20	26.9	1.6	85	12	109	118	35°	85	5.6
25	25	33.7	2	120	16	117	129	35°	85	8
40	32	42.4	2	150	18	147	180	35°	114	20
	40	48.3	2							15
50	50	60.3	2	180	22	162	194	35°	114	12
80	65	76.1	2	225	20	293	345	40°	223	16
	80	88.9	2.3							10

## ASME BPE

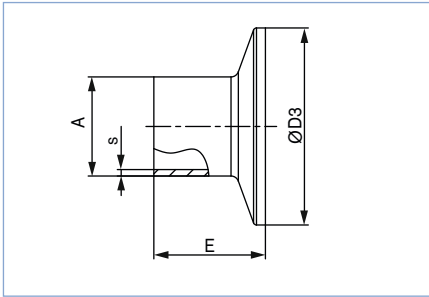
Orifice seat [mm]	Port connection [mm]	øA	s	øB	C1	C2	C3	D	øK	L
08	08	6.35	0.89	50	8	65	65	35°	34	9
15	15	12.7	1.65	85	12	103	109	35°	85	10
20	20	19.05	1.65	85	12	109	118	35°	85	8
25	25	25.4	1.65	120	16	117	129	35°	85	8
40	40	38.1	1.65	150	18	147	180	35°	114	15
50	40	38.1	1.65	180	22	162	194	35°	114	25
	50	50.8	1.65							15
	65	63.5	1.65							11
80	65	63.5	1.65	225	20	388	422	40°	–	25
	80	76.2	1.65	225	20	293	345	40°	223	16

## DIN 11850 RG2

Orifice seat [mm]	Port connection [mm]	øA	s	øB	C1	C2	C3	D	øK	L
08	10	13	1.5	50	8	65	65	35°	34	6
15	15	19	1.5	85	12	103	109	35°	85	8
20	20	23	1.5	85	12	109	118	35°	85	7
25	25	29	1.5	120	16	117	129	35°	85	8
40	40	41	1.5	150	18	147	180	35°	114	20
50	50	53	1.5	180	22	162	194	35°	114	15
80	80	85	2.0	225	20	293	345	40°	223	16

## Dimensions [mm], continued

## Body with Clamp



## ASME BPE

Orifice		A	s	D3	E
[mm]	[inch]				
08	1/4"	6.35	0.89	25.0	28.6
10	3/8"	9.53	0.89	25.0	28.6
15	1/2"	12.7	1.65	25.0	28.6
20	3/4"	19.05	1.65	25.0	28.6
25	1"	25.4	1.65	50.5	28.6
40	1 1/2"	38.1	1.65	50.5	28.6
50	2"	50.8	1.65	64.0	28.6
65	2 1/2"	63.5	1.65	77.5	28.6
80	3"	76.2	1.65	91.0	28.6
100	4"	101.6	2.11	119.0	28.6

## DIN 32676

Orifice [mm]	A	s	D3	E
10	1.5	34.0	18	
15	19	1.5	34.0	18
20	23	1.5	34.0	18
25	29	1.5	50.5	21.5
32	35	1.5	50.5	21.5
40	41	1.5	50.5	21.5
50	53	1.5	64.0	21.5
65	70	2.0	91.0	28

## ISO 2852 for pipe ISO 4200

Orifice [mm]	A	s	D3	E
8	13.5	1.6	25.0	28.6
8	13.5	1.6	34.0	28.6
10	17.2	1.6	34.0	28.6
15	21.3	1.6	34.0	28.6
15	21.3	1.6	50.5	28.6
20	26.9	1.6	50.5	28.6
25	33.7	2	50.5	28.6
32	42.4	2	50.5	28.6
40	48.3	2	64.0	28.6
50	60.3	2	77.5	28.6
65	76.1	2	91.0	28.6
100	114.3	2.3	130.0	28.6

## SMS

Orifice [mm]	A	s	D3	E
25	25	1.2	50.5	21.5
40	38	1.2	50.5	28.6
50	51	1.2	64.0	28.6

**Note**  
You can fill out the fields directly in the PDF file before printing out the form.

**Diaphragm valves – request for quotation**

▶ Please fill out and send to your nearest Bürkert facility\* with your inquiry or order

Company	Contact person
Customer no.	Department
Address	Tel./Fax
Postcode/town	E-Mail

= mandatory fields to fill out

Quantity

Required delivery date

**Operating data**

<input type="checkbox"/> Process medium	<input type="text"/>	
<input type="checkbox"/> Type of media	<input type="checkbox"/> Liquid	<input type="checkbox"/> Steam <input type="checkbox"/> Gas
<input type="checkbox"/> Flow rate (Q, Q <sub>N</sub> , W) <sup>1)</sup>	<input type="text"/> nominal	<input type="text"/> unit
<input type="checkbox"/> Temperature at valve inlet	<input type="text"/>	<input type="text"/>
<input type="checkbox"/> Absolute pressure at valve inlet	<input type="text"/>	<input type="text"/>
<input type="checkbox"/> Absolute pressure at valve outlet	<input type="text"/>	<input type="text"/>
<input type="checkbox"/> Steam pressure P <sub>v</sub>	<input type="text"/>	<input type="text"/>

<sup>1)</sup> standard unit:  
Liquid Q = m<sup>3</sup>/h;  
Steam W = kg/h;  
Gas Q<sub>N</sub> = Nm<sup>3</sup>/h

**Valve features**

**Specification key**

automatically transferred from next page

3235













**Certifications**

- |  |  |
|--|--|
| <input type="checkbox"/> Attestation of compliance with the order EN-ISO 10204 2.1                         | <input type="checkbox"/> Certification of Conformity for Pickling and Electropolishing Processes |
| <input type="checkbox"/> Test report EN-ISO 10204 2.2  | <input type="checkbox"/> FDA and USP compliance  |
| <input type="checkbox"/> Certification of Conformity for Raw Material EN-ISO 10204 3.1                     | <input type="checkbox"/> 3A certificate  |
| <input type="checkbox"/> Certification of Conformity for the Surface Quality<br>DIN4762-DIN4768-ISO/4287/1 |  |

**Comment / sketch**


\*To find your nearest Bürkert facility, click on the orange box →



Valve features

Example

15 AB B VI F085 SA42 D050 NO09 + NO17 + AF71

Specification key

Please make a choice

ORIFICE [mm] (diaphragm)

08
15
20
25
40
50
80
100

SEAL MATERIAL

AB	EPDM in food quality
EA	PTFE
FF	FKM, advanced PTFE

PRODUCTION OF BODY

B	Monoblock
---	-----------

BODY MATERIAL

VH	1.4435/AISI 316L
VI	1.4435BN2/ASME BPE

Standard

FLANGE

F050	DN08 (Ø 50 mm)
F085	DN15 (Ø 85 mm)
F085	DN20 (Ø 85 mm)
F120	DN25 (Ø 120 mm)
F150	DN40 (Ø 150 mm)
F180	DN50 (Ø 180 mm)
F225	DN80 (Ø 225 mm)
F300	DN100 (Ø 300 mm)



VARIABLE CODES

<b>Surface finish external</b>	
NO03	Ext. Mirror finished Ra=0.25 µm
NO15	Ext. Electro polished Ra=0.8µm
NO19	Ext. Mech. polished Ra=1.6µm
NO22	Ext. Glassbeaded Ra= 3.2 µm
	Standard
<b>Surface finish internal</b>	
NO07	Int. Mirror finished Ra=0.25 µm
NO14	Int. Satin finished Ra=0.5µm
NO17	Int. Electro finished Ra=0.4µm
NO20	Int. Electro polished Ra=0.25µm
	Standard
<b>Specific angle</b>	
AF71	45° outlet angle

ACTUATOR VERSION

D050	Top PPS, handwheel PPS
D058	Top stainless steel, Handwheel PPS for tank bottom
D085	Grey cast iron, white epoxy painted

PORT CONNECTION

Weld end

Orifice [mm]	EN ISO 1127/ ISO 4200	SMS 3008	DIN 11850				BS 4825	ASME BPE	JIS Sanitary	JIS Utility
			Series 0	Series1	Series 2	Series 3				
08	SA40=13.5x1.6		SC42=10x1.0				SODB=6.35x1.2	SA90=6.35x0.89	SA70=13.8x1.65	
15	SA42=21.3x1.6		SC43=18x1.5	SF41=18x1.0	SD42=19x1.5	SE42=20x2.0	SODD=12.7x1.2	SA92=12.7x1.65	SA72=21.7x2.1	
20	SA43=26.9x1.6		SC44=22x1.5	SF42=22x1.0	SD43=23x1.5	SE43=24x2.0	SODE=19.05x1.2	SA93=19.05x1.65	SA76=27.2x2.1	SA80=27.2x2.1
25	SA44=33.7x2.0	SA60=25.0x1.2	SC45=28x1.5	SF43=28x1.0	SD44=29x1.5	SE44=30x2.0	SODF=25.4x1.65	SODF=25.4x1.65	SA73=25.4x1.2	SA81=34x2.0
32	SA45=42.4x2.0		SC46=34x1.5	SF44=34x1.0	SD45=35x1.5	SE45=36x2.0				SA83=42.7x2.0
40	SA46=48.3x2.0	SA62=38.0x1.2	SC47=40x1.5	SF45=40x1.0	SD46=41x1.5	SE46=42x2.0	SODH=38.1x1.65	SODH=38.1x1.65	SA74=38.1x1.2	SA84=60.5x2.0
50	SA47=60.3x2.0	SA63=51.0x1.2	SC48=52x1.5	SF46=52x1.0	SD47=53x1.5	SE47=54x2.0	SODI=50.8x1.65	SODI=50.8x1.65	SA75=50.8x1.5	
65	SA48=76.1x2.0	SA64=63.5x1.6			SD48=70x2.0		SA64=63.5x1.65	SA64=63.5x1.65		
80	SA49=88.9x2.3	SA65=76.1x1.6			SD49=85x2.0		SA65=76.2x1.65	SA65=76.2x1.65		
100	SA39=114.3x2.3	SA66=101.6x2.0			SD50=104x2.0		SA66=101.6x2.11	SA66=101.6x2.11		

Clamp

Orifice DN [mm]	ISO 2852 SMS 3017	ASME BPE	DIN 32676
8	TC51=Clamp 34 - for tube ISO 4200	TG50=Clamp 25 - Tube 6.35x0.89	
10	TC41=Clamp 34 - for tube ISO 4200	TG01=Clamp 25 - Tube 9.53x0.89	TD41=Clamp 34 - Tube 13x1.5
15	TC42=Clamp 34 - for tube ISO 4200	TG02=Clamp 25 - Tube 12.7x1.65	TD42=Clamp 34 - Tube 19x1.5
20	TC43=Clamp 50.5 - for tube ISO 4200	TG03=Clamp 25 - Tube 19.05x1.65	TD43=Clamp 34 - Tube 23x1.5
25	TC44=Clamp 50.5 - for tube ISO 4200	TG04=Clamp 50.5 - Tube 25.4x1.65	TD44=Clamp 50.5 - Tube 29x1.5
40	TC46=Clamp 64 - for tube ISO 4200	TG05=Clamp 50.5 - Tube 38.1x1.65	TD46=Clamp 50.5 - Tube 41x1.5
50	TC47=Clamp 77.5 - for tube ISO 4200	TG06=Clamp 64 - Tube 50.8x1.65	TD47=Clamp 64 - Tube 53x1.5

In case of special application conditions, please consult for advice.

Subject to alteration.  
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