

## Tandem valve, welded valve configuration

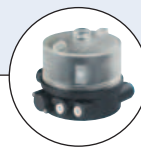


- Fully integrated in Burkert's Process Control Systems
- Quality certifications

Type 2034 can be combined with...



**Type 8691**  
Control Head



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



**Type 8692**  
Positioner Top-Control continuous



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

The Bürkert welded valve configurations for SAP (sterile access port) and GMP (good manufacturing practice) are designed for the control of ultrapure, sterile, aggressive or abrasive fluids. The configurations are made from two separate forged valve bodies. They are welded to be fully drainable and can be operated by either pneumatic actuator or manual handwheel.

The user can choose the required configuration in two separated specification keys. The first details the geometry, body and diaphragm materials while the second specifies body sizes, end connections, operator and surface finishes.



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 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 [µInch]</th> </tr> </thead> <tbody> <tr> <td>internal</td> <td></td> <td></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 [µInch]	internal			Mechanical polished	0.6	25	Electro polished	0.4	15	Other on request		Other on request
	Ra [µm]	Ra [µInch]														
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>	<ul style="list-style-type: none"> <li>Element (DN08-50) PPS, cover in Stainless steel 1.4561 (316Ti)</li> <li>Classic (DN65-100) PA, socle in Stainless steel 1.4308</li> <li>Manual PPS/PPS, PPS/St. steel (DN65, 80, 100 in full stainless steel)</li> </ul>															
<b>Pilot air ports</b>	G 1/8" or Push-In															
<b>Media temperature</b>	<ul style="list-style-type: none"> <li>EPDM (AD) -5 to +143°C (SIP: up to +150°C, 60 min.)</li> <li>advanced PTFE/EPDM (EU)<sup>1)</sup> -10 to +130°C (SIP: up to +140°C, 60 min.)</li> <li>advanced PTFE laminated on EPDM (EK)<sup>2)</sup> +5 to +90°C (no steam)</li> </ul>															
<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 5															



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

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

## 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.

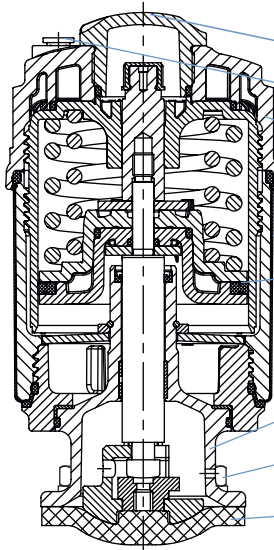
**Remark:**

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

**Materials**

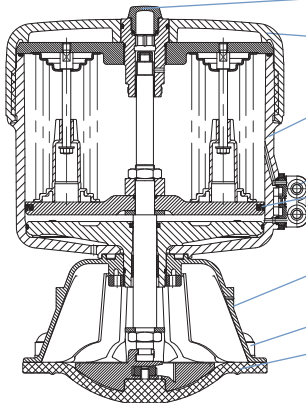
**Pneumatic**

**ELEMENT actuator DN08- DN50**



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

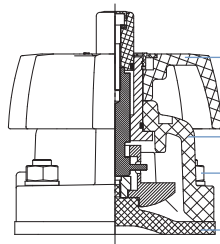
**Classic actuator DN65- DN100**



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

**Manual**

**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

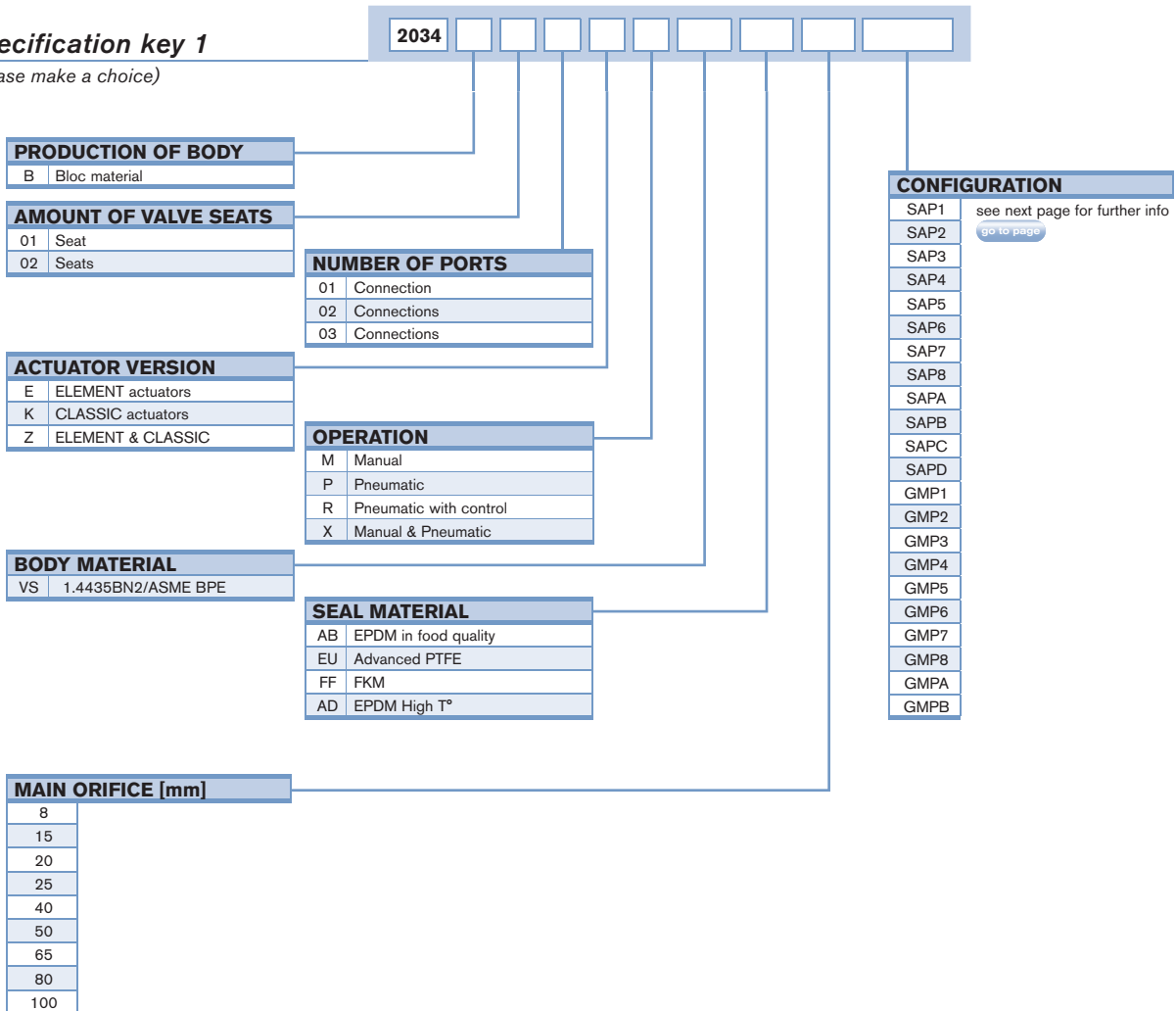
### Valve features, specification key 1

#### Example

2034	W	02	03	Z	X	VS	AB	25	GMP2
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#### Specification key 1

(Please make a choice)



Configurations

Steril access port

SAP1	SAP2	SAP3	SAP4
SAP5	SAP6	SAP7	SAP8
SAPA	SAPB	SAPC	SAPD

Good manufacturing practice

GMP1	GMP2	GMP3	GMP4
GMP5	GMP6	GMP7	GMP8
GMPA	GMPB		

Valve features, specification key 2

Example

2034 25 A 15 D050 SA44 SA44 SA42 NK52 + NO14

Specification key 2

(Please make a choice)

2034 [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] +

VALVE/SEAT n°1	
Orifice DN [mm]	Actuator version
08	<b>Pneumatic</b>
15	A normally closed by spring action
20	B normally open by spring action
25	I double acting
40	<b>Manual</b>
50	D050 Handwheel PPS / bonnet PPS
80	D052 Handwheel stainless steel / bonnet stainless steel (only DN65-DN100)
100	D058 Handwheel PPS / bonnet stainless steel with hole for bolts

VALVE/SEAT n°2	
Orifice DN [mm]	Actuator version
08	<b>Pneumatic</b>
15	A normally closed by spring action
20	B normally open by spring action
25	I double acting
40	<b>Manual</b>
50	D050 Handwheel PPS / bonnet PPS
80	D052 Handwheel stainless steel / bonnet stainless steel (only DN65-DN100)
100	D058 Handwheel PPS / bonnet stainless steel with hole for bolts

VARIABLE CODES	
Surface finish, external	
NO22	glass bead blasted Ra=3.2 µm
NO34	Mechanical polished Ra=1.2 µm
NO15	Electro polished Ra=0.8 µm
Surface finish, internal	
NO23	Mechanical polished Ra=0.6µm
NO16	Electro polished Ra=0.6µm
NO14	Mechanical polished Ra=0.5µm
NO17	Elektropoliert Ra=0.4µm
Certificat	
NK52	3.1 Certificate integrated

Port connection Valve/seat n°1

Port connection Valve/seat n°2, 3

DN [mm]	Port connection weld end							
	EN ISO 1127/ ISO 4200 DIN 11866 S. B	SMS 3008	DIN 11850 S. 0	DIN 11850 S. 1	DIN 11850 S. 2 DIN 11866 S. A	DIN 11850 S. 3	BS4825	ASME BPE DIN 11866 S. C
4			SC40 - 6.0x1.0					
6	SA78 - 10.2x1.6		SC41 - 8.0x1.0					SA89 - 3.17x0.56
8	SA40 - 13.5x1.6		SC42 - 10.0x1.0				SODB - 6.35x1.2	SA90 - 6.35x0.89
10	SA41 - 17.2x1.6			SF40 - 12.0x1.0	SD40 - 13.0x1.5	SE40 - 14.0x2.0	SODC - 9.53x1.2	SA91 - 9.53x0.89
15	SA42 - 21.3x1.6	SA58 - 12.0x1.0	SC43 - 18.0x1.5	SF41 - 18.0x1.0	SD42 - 19.0x1.5	SE42 - 20.0x2.0	SODD - 12.7x1.2	SA92 - 12.7x1.65
20	SA43 - 26.9x1.6	SA59 - 18.0x1.0	SC44 - 22.0x1.5	SF42 - 22.0x1.0	SD43 - 23.0x1.5	SE43 - 24.0x2.0	SODE - 19.05x1.2	SA93 - 19.05x1.65
25	SA44 - 33.7x2.0	SA60 - 25.0x1.2	SC45 - 28.0x1.5	SF43 - 28.0x1.0	SD44 - 29.0x1.5	SE44 - 30.0x2.0		SODF - 25.4x1.65
32	SA45 - 42.4x2.0	SA61 - 33.7x1.2	SC46 - 34.0x1.5	SF44 - 34.0x1.0	SD45 - 35.0x1.5	SE45 - 36.0x2.0		
40	SA46 - 48.3x2.0	SA62 - 38.0x1.2	SC47 - 40.0x1.5	SF45 - 40.0x1.0	SD46 - 41.0x1.5	SE46 - 42.0x2.0		SODH - 38.1x1.65
50	SA47 - 60.3x2.0	SA63 - 51.0x1.2	SC48 - 52.0x1.5	SF46 - 52.0x1.0	SD47 - 53.0x1.5	SE47 - 54.0x2.0		SODI - 50.8x1.65
65	SA48 - 76.1x2.0	SA64 - 63.5x1.6			SD48 - 70.0x2.0			SODJ - 63.5x1.65
80	SA49 - 88.9x2.3	SA65 - 76.1x1.6			SD49 - 85.0x2.0			SODK - 76.2x1.65
100	SA39 - 114.3x2.3	SA66 - 101.6x2.0			SD50 - 104.0x2.0			SODL - 101.6x2.11

DN [mm]	Port connection Clamp				
	Clamp 34,0 like DIN 32676 S. B (ISO-tube (ISO4200))	DIN 32676 S. A (DIN-tube (DIN11850))	DIN 32676 S. B (ISO-tube (ISO4200))	ASME BPE	BS 4825 (Clamp BS 4825-3, tube BS 4825-1)
8	TC51 - 13.5x1.6 Ci: 34.0	TD40 - 10.0x1.0 Ci: 25.0	TC40 - 13.5x1.6 Ci: 25.0	TG50 - 6.35x0.89 Ci: 25.0	
10	TC41 - 17.2x1.6 Ci: 34.0	TD41 - 13.0x1.5 Ci: 34.0	TC53 - 17.2x1.6 Ci: 25.0	TG01 - 9.53x0.89 Ci: 25.0	
15	TC42 - 21.3x1.6 Ci: 34.0	TD42 - 19.0x1.5 Ci: 34.0	TC52 - 21.3x1.6 Ci: 50.5	TG02 - 12.7x1.65 Ci: 25.0	TH42 - 12.7x1.2 Ci: 25.0
20		TD43 - 23.0x1.5 Ci: 34.0	TC43 - 26.9x1.6 Ci: 50.5	TG03 - 19.05x1.65 Ci: 25.0	TH43 - 19.05x1.2 Ci: 25.0
25		TD44 - 29.0x1.5 Ci: 50.5	TC44 - 33.7x2.0 Ci: 50.5	TG04 - 25.4x1.65 Ci: 50.5	
32					
40		TD46 - 41.0x1.5 Ci: 50.5	TC46 - 48.3x2.0 Ci: 64.0	TG05 - 38.1x1.65 Ci: 50.5	
50		TD47 - 53.0x1.5 Ci: 64.0	TC47 - 60.3x2.0 Ci: 77.5	TG06 - 50.8x1.65 Ci: 64.0	
65			TC48 - 76.1x2.0 Ci: 91.0	TG07 - 63.5x1.65 Ci: 77.5	
80			TC49 - 88.9x2.3 Ci: 106.0	TG08 - 76.2x1.65 Ci: 91.0	
100			TC50 - 114.3x2.3 Ci: 130.0	TG09 - 101.6x2.11 Ci: 119.0	

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

**Standard 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

= 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
	Nominal	Unit	
<input type="checkbox"/> Flow rate (Q, QN, W) <sup>1)</sup>	<input type="text"/>	<input type="text"/>	
<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"/>	
Steam pressure Pv	<input type="text"/>	<input type="text"/>	

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

**Valve features**

**Specification key 1**

2034

(automatically transferred from p 4 )

**Specification key 2**

2034           +

(automatically transferred from p. 6 )

**Accessories**

Click on the orange box „More info.“ below... you will come to our website for the resp. product where you can download the datasheet.

**Pilot valve**

Type 6012

**More info.**

Please specify item no. (if known):

for actuator (A1, A2,...)

**Stroke limitation**

**More info.**

- Min./max. stroke limitation, with visual position indicator
- Max. stroke limitation, without visual position indicator

Please specify item no. (if known):

for actuator (A1, A2,...)

**Position feedback/Control head**

Type 8690

**More info.**

Type 8691

**More info.**

Type 8695

**More info.**

Type 8697

**More info.**

Type 8685

**More info.**

Type 8686

**More info.**

Please specify item no. (if known):

for actuator (A1, A2,...)

**Certifications**

- Attestation of compliance with the order EN-ISO 10204 2.1
- Certification of Conformity for Pickling and Electropolishing Processes
- Test report EN-ISO 10204 2.2
- FDA and USP compliance
- Certification of Conformity for Raw Material EN-ISO 10204 3.1
- Certification of Conformity for the Surface Quality DIN4762-DIN4768-ISO/4287/1

**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



**Sales data**

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

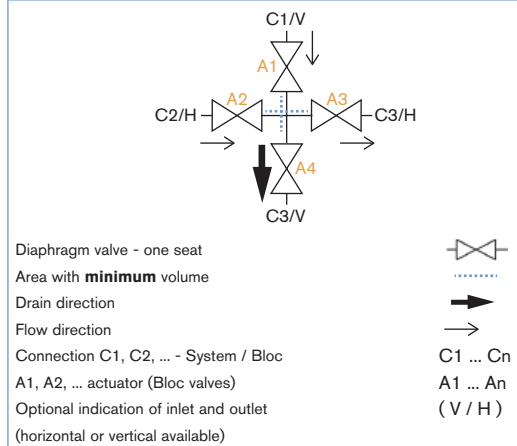
**Quantities:** \_\_\_\_\_  single enquiry  
 enquiry for series

**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		_____

**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**

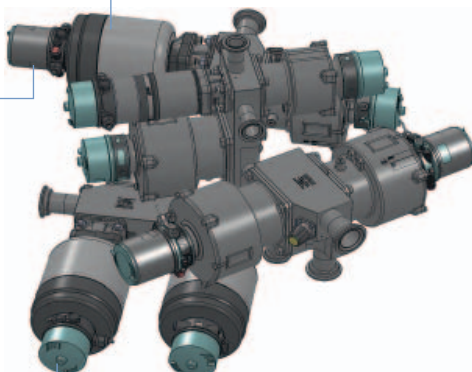
- integrated pilot valve
- position teach in
- large LED indication
- ASI and device net communication possible

**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
- Exei version



Description fluidic system Type 2034  
 Detail information on [www.burkert.com](http://www.burkert.com)

**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.

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

Subject to alteration.  
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