

Pneumatic operated 2/2 way Diaphragm Valve



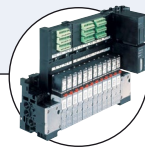
- Light tube valve body
- Flow optimised body in stainless steel
- Zero dead volume
- Easy to weld

Type 2031 can be combined with...



Type 8697

Electrical position feedback



Type 8640/8644

Valve block



Type 6012/6014 P

Pilot valve



Type 8311

Pressure Sensor/Switch

For process valves with decentralized automation see ELEMENT Type 2103



The externally piloted diaphragm valve consists of a pneumatically operated piston actuator, a diaphragm and a 2-way tube valve body.

Bürkert's patented hydroforming technology allows the manufacturing of a flow optimized stainless steel valve body with high surface quality. A laser-welded mounting interface ensures robustness and hygienic design.

The reliable actuator is made of PPS, a very resistant polymer. The different Bürkert diaphragms are optimized for a high lifetime.

The diaphragm valve with tube body is perfect for hygienic application in the food and beverage, pharma, and cosmetic industries. It is designed with zero dead leg and a high cleanability certified by EHEDG.

| Technical data | |
|---|---|
| Port connection size | DN08-50 (1/4" - 2") |
| Diaphragm size | 8-50 |
| Port connections Weld ends | ASME BPE/DIN 11866 Series C DIN EN ISO 1127/ISO 4200/DIN11866 Series B DIN 11850 2/DIN 11866 Series A |
| Diaphragm materials | EPDM (AB), PTFE/EPDM (EA) EPDM (AD), advanced PTFE/EPDM (EU), GYLON®/EPDM laminated (ER) and FKM (FF) on request |
| Materials Body Actuator Pilot air ports | Stainless steel 316L / 1.4435 / BN2 PPS (PA on request) Stainless steel 1.4435 |
| Fluid | Neutral gases and liquids, high purity, sterile, aggressive or abrasive fluids |
| Viscosity | up to viscous |
| Surface finishes (inner surface) Electro polished | Ra ≤ 0.38 µm (ASME BPE SF ⁴⁾) |
| Media temperature EPDM (AB), PTFE/EPDM (EA) EPDM (AD), advanced PTFE/EPDM (EU) GYLON®/EPDM laminated (ER) FKM (FF) | -10 to +130 °C (steam sterilisation +140 °C for 60 min) -5 to +143 °C (steam sterilisation +150 °C for 60 min) -5 to +130 °C (steam sterilisation +140 °C for 60 min) 0 to +130 °C (not recommended for steam) |
| Ambient temperature PPS actuator PA actuator (on request) | +5 to +140 °C for actuator size < 100 mm +5 to +90 °C for actuator size ≥ 100 mm (briefly up to +140 °C) -10 to +60 °C |
| Control fluid | Neutral gases; air |
| Installation | as required, preferably with actuator in upright position |



Technical data, continued

| Port Connection DN | | Dia-phragm size | Actuator size | Pilot pressure | Max. operating pressure for seal material [bar] | | K _v value [m ³ /h] | | |
|--------------------|--------|-----------------|---------------|----------------|---|-----------------------------|--|----------------------------|-------------------------|
| [mm] | [inch] | | | | EPDM, FKM | PTFE, advanced PTFE, GYLON® | DIN EN ISO 1127 ISO 4200 DIN 11866 B | DIN 11850 2 DIN 11866 A | ASME BPE DIN 11866 C |
| 8 | ¼" | 8 | 40 | 5.0...7 | 10 | 10 | 2.1 | - | - |
| 10 | ⅜" | 8 | 40 | 5.0...7 | 10 | 10 | - | 2.1 | - |
| 15 | ½" | 8 | 40 | 5.0...7 | 10 | 10 | - | - | 2 |
| | | 15 | 50 | 5.0...7 | 8.5 | - | 6.7 | 6.5 | - |
| 20 | ¾" | 15 | 50 | 5.0...7 | 8.5 | - | - | 6.5 | 6.5 |
| | | | 63 | 5.0...7 | - | 10 | - | - | - |
| | | 20 | 63 | 5.5...7 | 10 | - | 13 | - | - |
| | | | 80 | 5.0...7 | - | 10 | - | - | - |
| 25 | 1" | 20 | 63 | 5.5...7 | 10 | - | - | 14 | 12.5 |
| | | | 80 | 5.0...7 | - | 10 | - | - | - |
| | | 25 | 80 | 5.5...7 | 10 | 7.5 | 17.5 | - | - |
| 32 | 1¼" | 25 | 80 | 5.5...7 | 10 | 7.5 | - | 20 | - |
| | | 32 | 100 | 5.5...7 | 10 | 8 | 36 | - | - |
| 40 | 1½" | 32 | 100 | 5.5...7 | 10 | 8 | - | 35 | 30 |
| | | | 40 | 100 | 5.5...7 | 6.5 | - | 47 | - |
| | | 125 | 5.5...7 | - | 10 | - | - | - | - |
| 50 | 2" | 40 | 100 | 5.5...7 | 6.5 | - | - | 44 | 40 |
| | | | 125 | 5.5...7 | - | 10 | - | - | - |
| | | 50 | 125 | 5.5...7 | 8 | 7 | 70 | - | - |

Flow rate: K_v value water [m³/h]: Measured at +20 °C, 1 bar pressure at valve inlet and free outlet.

Pressure values [bar]: Overpressure to the atmospheric pressure

Installation for self-draining operation

$\alpha = 13$ up to 24° plus 3° to 5° inclination to the pipe axis.
 Drain marks permanently marked on both sides of the valve body show the correct mounting position to optimise drainability.

Body label

Material: 1.4435 316L(VF1)
 Nominal pressure: PN16 / CWPI50
 Serial number (optional): xxxxxxxxxx
 Company logo: burkert
 Heat number: xxxxxxxxxx
 Port connection & Tube dimensions: xxxxxxxxxx
 Code surface finish / customized text (optional): xxxxxxxxxx / xxx / xxxxxxxxxx

Approvals

Suitability for foodstuffs / sterile applications



- The composition of the EPDM (AB), EPDM (AD), PTFE/EPDM (EA), advanced PTFE (EU) and GYLON®/EPDM laminated (ER) diaphragms corresponds to the Code of Federal Regulations, published by the FDA (Food and Drug Administration, USA).

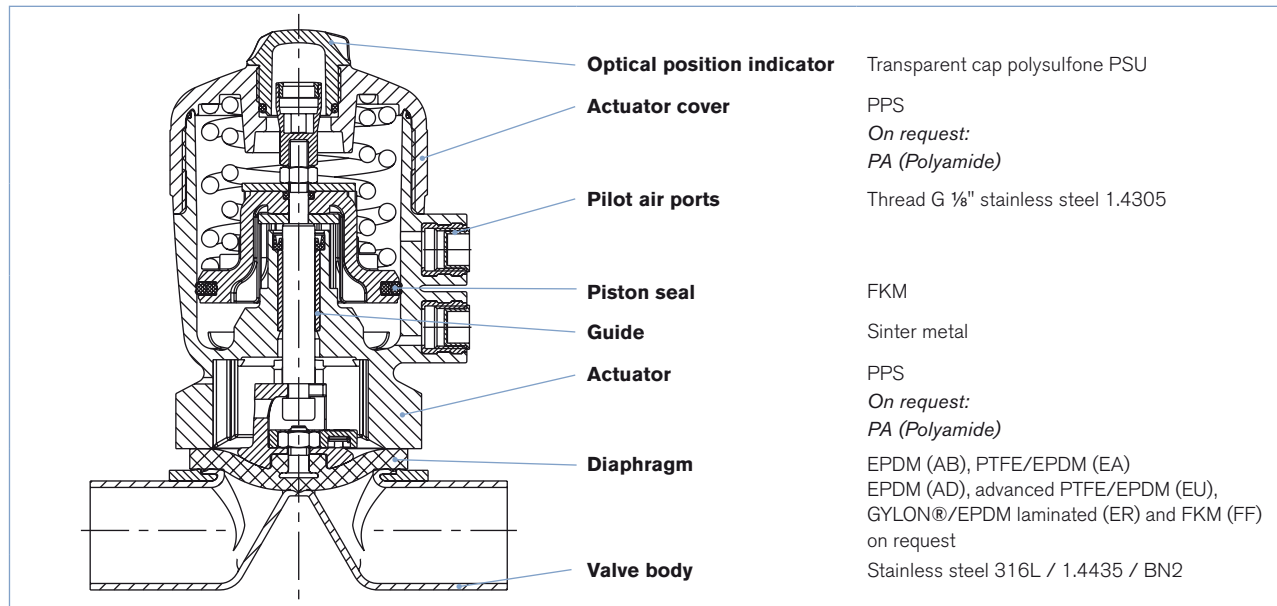


- The composition of the EPDM (AB), EPDM (AD), PTFE/EPDM (EA), advanced PTFE (EU) and GYLON®/EPDM laminated (ER) diaphragms is suitable for the application with food and beverage (acc. to EC-Regulation 1935/2004/EC)



- The composition of the EPDM (AB), EPDM (AD), PTFE/EPDM (EA), advanced PTFE (EU) and GYLON®/EPDM laminated (ER) diaphragms are approved acc. USP Class VI
- Approval according to TA-air (Port size DN4 - 50)
- The diaphragm valve with tube valve body and EPDM or PTFE has been evaluated for compliance with the *Hygienic Equipment Design Criteria* of the EHEDG

Materials



Ordering information for valve system On/Off Classic Type 8801-DB

An **diaphragm valve Type 2031** can be combined with the **feedback Type 8697** to form a **valve system On/Off CLASSIC**.

The valve system On/Off CLASSIC is composed of: [More info.](#)

- a feedback **Type 8697** (see separate datasheet)
- an diaphragm valve **Type 2031** (see ordering chart)

For the configuration of further valve systems please use the "Request for quotation".

You order two components and receive a complete assembled and certified valve.

Diaphragm valve Type 2031 Tube Valve Body



Feedback Type 8697



Electrical position feedback

[More info.](#)



Type 8697

Actuator size 40 to 125

The position feedback Type 8697 is designed for integrated mounting on CLASSIC series 20XX process valves suiting the requirements of hygienic process environment. Mechanical or inductive limit switches register the position of the valve.

Features

- Compact design
- LED position indicator
- Mechanical or inductive limit switches for end position registering
- Easy to clean chemically resistant housing featuring IP65 / IP67, 4X Rating
- Optional intrinsically safe version acc. to ATEX

Benefits

- Easy and quick installation
- High level of signal reliability thanks to self adjusting limit switches
- Minimised space requirement in the plant piping for more flexibility in plant design

Valve System On/Off CLASSIC

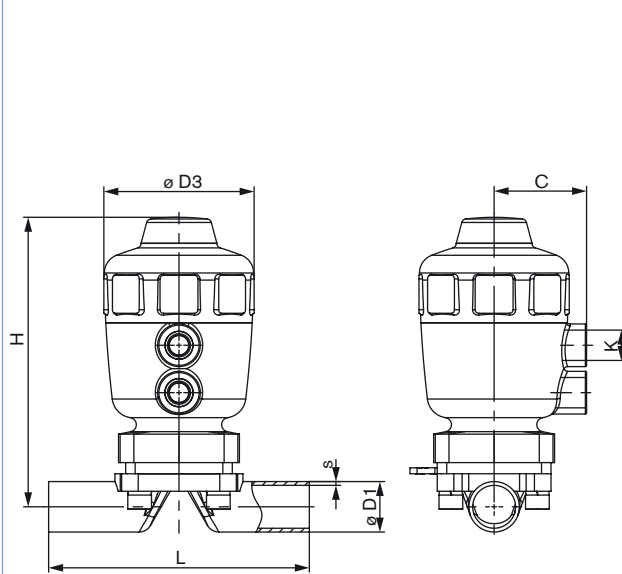


Type 8801-DB-U
2031 + 8697

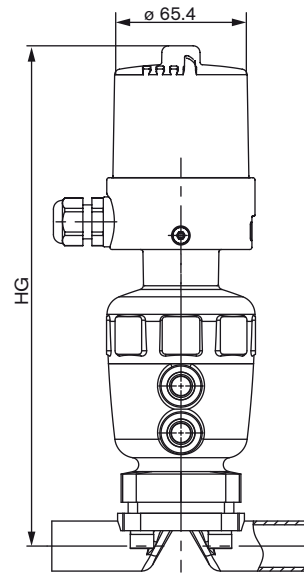
Click on the orange box „More info“... you will come to our website for the resp. product where you can download the data sheet.

Dimensions [mm] - Diaphragm valve type 2031 and valve system On/Off Classic

Weld ends port connection



with feedback
Type 8697

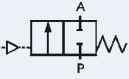


| Port Connection DN | | Dia- phragm size | Actuator size Ø | L | ØD1 | s | ØD3 | C | K | H | HG Feedback |
|--|--------|------------------------|--------------------|-----|-------|------|-----|----|-----|-----|----------------|
| [mm] | [inch] | | | | | | | | | | |
| DIN EN ISO 1127/ISO 4200/DIN11866 B | | | | | | | | | | | |
| 8 | ¼" | 8 | 40 | 90 | 13.5 | 1.6 | 53 | 34 | G ⅛ | 94 | 176 |
| 15 | ½" | 15 | 50 | 110 | 21.3 | 1.6 | 64 | 39 | G ⅛ | 122 | 217 |
| | | | 63 | 110 | 21.3 | 1.6 | 80 | 52 | G ¼ | 139 | 234 |
| 20 | ¾" | 20 | 63 | 119 | 26.9 | 1.6 | 80 | 52 | G ¼ | 147 | 242 |
| | | | 80 | 119 | 26.9 | 1.6 | 101 | 60 | G ¼ | 168 | 263 |
| 25 | 1" | 25 | 80 | 129 | 33.7 | 2.0 | 101 | 60 | G ¼ | 176 | 272 |
| 32 | 1 ¼" | 32 | 100 | 148 | 42.4 | 2.0 | 127 | 73 | G ¼ | 227 | 322 |
| 40 | 1 ½" | 40 | 100 | 161 | 48.3 | 2.0 | 127 | 73 | G ¼ | 234 | 329 |
| | | | 125 | 161 | 48.3 | 2.0 | 153 | 86 | G ¼ | 272 | 367 |
| 50 | 2" | 50 | 125 | 192 | 60.3 | 2.0 | 153 | 86 | G ¼ | 277 | 373 |
| ASME BPE/DIN 11866 C | | | | | | | | | | | |
| 15 | ½" | 8 | 40 | 90 | 12.7 | 1.65 | 53 | 34 | G ⅛ | 94 | 176 |
| 20 | ¾" | 15 | 50 | 117 | 19.05 | 1.65 | 64 | 39 | G ⅛ | 121 | 216 |
| | | | 63 | 117 | 19.05 | 1.65 | 80 | 52 | G ¼ | 138 | 233 |
| 25 | 1" | 20 | 63 | 127 | 25.4 | 1.65 | 80 | 52 | G ¼ | 146 | 241 |
| | | | 80 | 127 | 25.4 | 1.65 | 101 | 60 | G ¼ | 167 | 262 |
| 40 | 1 ½" | 32 | 100 | 159 | 38.1 | 1.65 | 127 | 73 | G ¼ | 225 | 320 |
| 50 | 2" | 40 | 100 | 190 | 50.8 | 1.65 | 127 | 73 | G ¼ | 235 | 330 |
| | | | 125 | 190 | 50.8 | 1.65 | 153 | 86 | G ¼ | 273 | 368 |
| DIN 11850 2/DIN 11866 A | | | | | | | | | | | |
| 10 | ⅜" | 8 | 40 | 90 | 13 | 1.5 | 53 | 34 | G ⅛ | 94 | 176 |
| 15 | ½" | 15 | 50 | 110 | 19 | 1.5 | 64 | 39 | G ⅛ | 121 | 216 |
| | | | 63 | 110 | 19 | 1.5 | 80 | 52 | G ¼ | 138 | 233 |
| 20 | ¾" | 15 | 50 | 119 | 23 | 1.5 | 64 | 39 | G ⅛ | 123 | 218 |
| | | | 63 | 119 | 23 | 1.5 | 80 | 52 | G ¼ | 140 | 235 |
| 25 | 1" | 20 | 63 | 129 | 29 | 1.5 | 80 | 52 | G ¼ | 142 | 237 |
| | | | 80 | 129 | 29 | 1.5 | 101 | 60 | G ¼ | 169 | 264 |
| 32 | 1 ¼" | 25 | 80 | 148 | 35 | 1.5 | 101 | 60 | G ¼ | 177 | 273 |
| 40 | 1 ½" | 32 | 100 | 161 | 35 | 1.5 | 127 | 73 | G ¼ | 226 | 321 |
| 50 | 2" | 40 | 100 | 192 | 41 | 1.5 | 127 | 73 | G ¼ | 236 | 331 |
| | | | 125 | 192 | 53 | 1.5 | 153 | 86 | G ¼ | 274 | 369 |

Ordering chart diaphragm Valve Type 2031

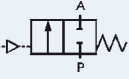
Welded connection ASME BPE/DIN 11866 C

electropolished Ra ≤ 0.38 micrometer and Certification of Conformity for Raw Material EN-ISO 10204 3.1 (included in delivery)

| Control function | Port Connection DN | | Diaphragm size | Actuator size | K _v value | Pilot pressure | Max. operating pressure | Article no. EPDM (AB) seal material | Article no. PTFE/EPDM (EA) seal material |
|--|--------------------|--------|----------------|---------------|----------------------|----------------|-------------------------|-------------------------------------|--|
| | [mm] | [inch] | | | | | | | |
| A 2/2 way valve, normally closed (NC)  | 15 | ½" | 8 | 40 | 2 | 5.0 ... 7 | 10 | 275388 | 275390 |
| | 20 | ¾" | 15 | 50 | 6.5 | 5.0 ... 7 | 8.5 | 275391 | - |
| | | | | 63 | 6.5 | 5.0 ... 7 | 10 | - | 275392 |
| | 25 | 1" | 20 | 63 | 12.5 | 5.5 ... 7 | 10 | 278879 | - |
| | | | | 80 | 12.5 | 5.0 ... 7 | 10 | - | 278880 |
| | 40 | 1½" | 32 | 100 | 30 | 5.5 ... 7 | 10 | 278881 | - |
| | | | | | 30 | 5.5 ... 7 | 8 | - | 278882 |
| | | | | 100 | 40 | 5.5 ... 7 | 6.5 | 278883 | - |
| | 50 | 2" | 40 | 100 | 40 | 5.5 ... 7 | 10 | - | 278884 |
| | | | | 125 | 40 | 5.5 ... 7 | 10 | - | 278884 |

Welded connection acc. DIN EN ISO 1127/ISO 4200/DIN11866 B

electropolished Ra ≤ 0.38 micrometer and Certification of Conformity for Raw Material EN-ISO 10204 3.1 (included in delivery)

| Control function | Port Connection DN | | Diaphragm size | Actuator size | K _v value | Pilot pressure | Max. operating pressure | Article no. EPDM (AB) seal material | Article no. PTFE/EPDM (EA) seal material |
|--|--------------------|--------|----------------|---------------|----------------------|----------------|-------------------------|-------------------------------------|--|
| | [mm] | [inch] | | | | | | | |
| A 2/2 way valve, normally closed (NC)  | 8 | ¼" | 8 | 40 | 2.1 | 5.0...7 | 10 | 290447 | 290448 |
| | 15 | ½" | 15 | 50 | 6.7 | 5.0...7 | 8.5 | 290452 | - |
| | | | | 63 | 6.7 | 5.0...7 | 10 | - | 290454 |
| | 20 | ¾" | 20 | 63 | 13 | 5.5...7 | 10 | 290455 | - |
| | | | | 80 | 13 | 5.0...7 | 10 | - | 290457 |
| | 25 | 1" | 25 | 80 | 17.5 | 5.5...7 | 10 | 290458 | - |
| | | | | | 17.5 | 5.5...7 | 7.5 | - | 290460 |
| | 32 | 1¼" | 32 | 100 | 36 | 5.5...7 | 10 | 290461 | - |
| | | | | | 36 | 5.5...7 | 8 | - | 290462 |
| | 40 | 1½" | 40 | 100 | 47 | 5.5...7 | 6.5 | 290463 | - |
| | | | | 125 | 47 | 5.5...7 | 10 | - | 290465 |
| | 50 | 2" | 50 | 125 | 70 | 5.5...7 | 8 | 290466 | - |
| | | | | | 70 | 5.5...7 | 7 | - | 290467 |

i Further versions on request



Control function
B (normally open: NO)



Materials
Diaphragms for sterilization with steam EPDM (AD), advanced PTFE/EPDM (EU) and GYLON®/EPDM laminated (ER)

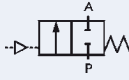


Additional
Versions with reduces spring force

Ordering chart diaphragm Valve Type 2031

Welded connection DIN 11850 2/DIN 11866 A

electropolished Ra ≤ 0.38 micrometer and Certification of Conformity for Raw Material EN-ISO 10204 3.1 (included in delivery)

| Control function | Port Connection DN | | Diaphragm size | Actuator size [mm] | K _v value [m ³ /h] | Pilot pressure [bar] | Max. operating pressure [bar] | Article no. EPDM (AB) seal material | Article no. PTFE/EPDM (EA) seal material |
|--|--------------------|--------|----------------|--------------------|--|----------------------|-------------------------------|-------------------------------------|--|
| | [mm] | [inch] | | | | | | | |
| A 2/2 way valve, normally closed (NC)  | 10 | 3/8" | 8 | 40 | 2.1 | 5.0...7 | 10 | 290433 | 290434 |
| | | 15 | | 1/2" | 15 | 50 | 6.5 | 5.0...7 | 8.5 |
| | 20 | 3/4" | 15 | 50 | 6.5 | 5.0...7 | 8.5 | 290437 | - |
| | | | | 63 | 6.5 | 5.5...7 | 10 | - | 290436 |
| | 25 | 1" | 20 | 63 | 14 | 5.5...7 | 10 | 290439 | - |
| | | | | 80 | 14 | 5.0...7 | 10 | - | 290440 |
| | 32 | 1 1/4" | 25 | 80 | 20 | 5.5...7 | 7.5 | 290441 | - |
| | | | | | 20 | 5.5...7 | 10 | - | 290442 |
| | | | | | 35 | 5.5...7 | 10 | 290443 | - |
| | 40 | 1 1/2" | 32 | 100 | 35 | 5.5...7 | 8 | - | 290444 |
| | | | | | 35 | 5.5...7 | 10 | 290445 | - |
| | 50 | 2" | 40 | 100 | 44 | 5.5...7 | 6.5 | 290445 | - |
| 125 | | | | 44 | 5.5...7 | 10 | - | 290446 | |

Further versions on request



Control function
B (normally open: NO)



Materials
Diaphragms for sterilization with steam EPDM (AD), advanced PTFE/EPDM (EU) and GYLON®/EPDM laminated (ER)



Additional
Versions with reduces spring force

Ordering chart for accessories

3/2 way pilot valves with banjo bolts

Seal material valve FKM, seal material banjo bolt NBR

| Valve for actuator size [Ø mm] | Type | Pressure inlet P (valve body) | Service port A (banjo bolt) | Orifice [mm] | C _{nv} value air [l/min] | Pressure range [bar] | Electrical coil connection Ind. Std. | Power consumption [W] | Article no. per voltage/frequency [V/Hz] | |
|--------------------------------|-------|-------------------------------|-----------------------------|--------------|-----------------------------------|----------------------|--------------------------------------|-----------------------|--|--------|
| | | | | | | | | | 024/DC | 230/50 |
| 40-50 | 6012P | G 1/4 | G 1/8 | 1.2 | 48 | 0...10 | Form B | 4 | 552295 | 552298 |
| 63 | 6012P | Tube fitting Ø6 mm | G 1/4 | 1.2 | 48 | 0...10 | Form B | 4 | 552283 | 552286 |
| 80-125 | 6014P | G 1/4 | G 1/4 | 2 | 120 | 0...10 | Form A | 8 | 424103 | 424107 |

Cable plug Type 2507, Form B or Type 2508, Form A

| | Article no. |
|--|-------------|
| Type 2507, Form B Industrial standard, 0...250 V without circuitry (Type 6012 P) | 423845 |
| Type 2508, Form A acc. to DIN EN 175301-803, 0...250 V without circuitry (Type 6014 P, Type 0331P) | 008376 |

For further accessories see the the accessories data sheet Type 2XXX for the full options programme.

Note

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

Diaphragm valve CLASSIC Type 2031 and Valve System Type 8801-DB – request for quote

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

| | | | | |
|---|---------------------------------|--------------------------------|------------------------------|----------------------|
| Pipeline | DN | <input type="text"/> | PN | <input type="text"/> |
| Pipe material | <input type="text"/> | | | |
| Process medium | <input type="text"/> | | | |
| Type of medium | <input type="checkbox"/> Liquid | <input type="checkbox"/> Steam | <input type="checkbox"/> Gas | |
| Flow rate (Q, Q _N , W) ¹⁾ | <input type="text"/> | standard | <input type="text"/> | unit |
| Temperature at valve inlet | <input type="text"/> | <input type="text"/> | | |
| Absolute pressure at valve inlet | <input type="text"/> | <input type="text"/> | | |
| Steam sterilisation | temperature | <input type="text"/> | | |

¹⁾ standard unit: Liquid Q = m³/h; Steam W = kg/h; Gas Q_N = Nm³/h

Valves features


| | | |
|-------------------------------------|---|---|
| Diaphragm size (orifice) | DN | <input type="text"/> |
| Diaphragm materials | <input type="checkbox"/> EPDM (AB) <input type="checkbox"/> EPDM (AD) <input type="checkbox"/> PTFE/EPDM (EA) <input type="checkbox"/> advanced PTFE/EPDM (EU) <input type="checkbox"/> GYLON®/EPDM laminated (ER) | |
| Type of connection | <input type="checkbox"/> Weld ends <input type="checkbox"/> ASME BPE/DIN 11866 C <input type="checkbox"/> DIN EN ISO 1127/ISO 4200/DIN11866 B <input type="checkbox"/> DIN 11850 2/DIN 11866 A <input type="checkbox"/> Electropolished Ra ≤ 0.38 µm | |
| Control function | <input type="checkbox"/> NC ²⁾ <input type="checkbox"/> NO ²⁾ | |
| Pilot pressure | <input type="text"/> | min. <input type="text"/> max. <input type="text"/> |
| Please specify item no. (if known): | <input type="text"/> | |

²⁾ NC: normally closed by spring action; NO: normally open by spring action

Automation unit features

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

Type 8697 More info.
For actuator size 40 to 125



- LED position indicator
- Mechanical or inductive limit switches for end position registering
- Housing with IP65/IP67, 4X rating protection
- Optional intrinsically safe version acc. to ATEX / IECEx

| | |
|--|---|
| <p>Position feedback switches</p> <input type="checkbox"/> Micro switch 24 V DC <input type="checkbox"/> Micro switch 50 – 225 V DC/AC <input type="checkbox"/> Inductive switch 3-wire PNP <input type="checkbox"/> Inductive switch 2-wire NAMUR <input type="checkbox"/> Inductive switch 2-wire 24 V DC | <p>Electrical connection</p> <input type="checkbox"/> Cable gland <input type="checkbox"/> M12 connector (applicable only with inductive switch 3-wire PNP) |
| <p>Number of Position feedback switches</p> <input type="checkbox"/> 2x | <p>Approval</p> <input type="checkbox"/> ATEX cat. 3GD, IECEx <input type="checkbox"/> ATEX cat. 2DG, IECEx <input type="checkbox"/> without |

Diaphragm valve Classic Type 2031 and valve system 8801-DB - Request for quotation, *continued*

| Valve accessories | |
|---|--|
| Pilot valve | Stroke limitation |
| <input type="checkbox"/> Pilot valve | <input type="checkbox"/> Stroke limitation |
| Power supply <input type="text"/> | <input type="checkbox"/> Min./max. stroke limitation , with visual position indicator |
| | <input type="checkbox"/> Max. stroke limitation , without visual position indicator |
| Please specify item no. if known: <input type="text"/> | Please specify item no. if known: <input type="text"/> |

| Certifications | |
|--------------------------|---|
| <input type="checkbox"/> | Test report 2.2 according to EN-ISO 10204 (Article no. 803722) |
| <input type="checkbox"/> | Inspection Certificate 3.1 according to EN-ISO 10204 (included) |
| <input type="checkbox"/> | Certification of Conformity for surface quality DIN4762-DIN4768-ISO / 4287/1 (Article no. 804175) |
| <input type="checkbox"/> | Certification of Conformity for Pickling and Electropolishing Processes (Article no. 444900) |
| <input type="checkbox"/> | EHEDG - TYPE EL-CLASS I |
| <input type="checkbox"/> | Food & beverages (in accordance with EC regulation 1935/2004 / EC) |
| <input type="checkbox"/> | Certification according to FDA and USP |

| Comment / sketch |
|------------------|
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DTS 1000259060 EN Version: L Status: RL (released | freigegeben | validé) printed: 12.03.2018

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