



Digital electropneumatic positioner for integrated mounting on process control valves

- Compact and robust stainless steel design
- Start-up with automatic TUNE function
- Contact-free position sensor
- Integrated pilot air duct in the actuator
- AS interface, IO-Link or Bürkert system bus (büS)

Product variants described in the data sheet may differ from the product presentation and description.

Can be combined with

| | | |
|---|---|---|
|  | Type 2300 Pneumatically operated 2-way angle seat control valve ELEMENT | ▶ |
|  | Type 2301 Pneumatically operated 2-way Globe Control Valve | ▶ |
|  | Type 2103 2/2-way diaphragm valve with pneumatic stainless steel actuator (Type ELEMENT) for decentralised automation | ▶ |

Type description

Compact positioner for integrated mounting on pneumatically controlled process control valves. The set-point value setting default occurs via standard signal 4-20 mA and/or via AS interface. A sensor element with contactless function records the valve spindle position. Simple start-up via automatic TUNE function and setting with the aid of DIP switch:

- sealing threshold
- characteristic selection
- inversion of direction
- manual/automatic operating state switchover
- digital input

Additional options available for parametrising using device DTM. A software interface can be used for the linearisation of the operating characteristic with the aid of a freely programmable characteristic, amongst other things. The status indicator functions using LEDs. An analogue position feedback can be optionally integrated.

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1. General technical data

1.1. Digital electropneumatic positioner, Type 8694

| Product properties | |
|--|---|
| Dimensions | Further information can be found in chapter "4. Dimensions" on page 8. |
| Material | |
| Body | PPS, stainless steel |
| Seal | EPDM |
| Cover | PC |
| Operation | |
| Operating keys | 2 |
| DIP switch | Integrated |
| Service interface | Connection to PC via USB bÜS interface set |
| Configuration tool | Bürkert Communicator |
| Commissioning | |
| Initialisation of positioner | Automatically by X.TUNE function (automatic adjustment of positioner) |
| Manual override of pilot valve | Yes |
| Status display | |
| Display of the device and valve status | Multicoloured LEDs |
| Communication | |
| Fieldbus | AS-Interface |
| Digital | IO-Link, Bürkert system bus (bÜS) (based on CANopen) |
| Performance data | |
| Position sensor | |
| Measurement principle | Linear: inductive Rotary: magnetic |
| Position detection module | Contactless analogue position sensor (wear-free) |
| Stroke range | |
| Valve spindle | Linear: 3...45 mm Rotary: 30...180° |
| Electrical data | |
| Operating voltage | 24 V DC \pm 25 % UL: NEC Class 2 |
| Residual ripple | Max. 10 % |
| Power consumption | \leq 3.5 W |
| Protection class | III according to DIN EN 61140 |
| Electrical connection | |
| Multipole variant | M12, 8-pin resp. 4- or 5-pin according to device variant (see "5. Product connections" on page 9) |
| Cable gland variant | M16 \times 1.5 (cable \varnothing 5...10 mm) with terminals for cable cross-sections 0.14...1.5 mm ² |
| Pneumatic data | |
| Control medium | |
| Dust content | Neutral gases, air, quality class according to ISO 8573 - 1 Class 7 (< 40 μ m particle size) |
| Particle density | Class 5 (< 10 mg/m ³) |
| Pressure dew point | Class 3 (\leq - 20 °C or min. 10 °C below the lowest operating temperature) |
| Oil content | Class X (< 25 mg/m ³) |
| Air supply filter | |
| Mesh size | Exchangeable Approx. 0.1 mm |
| Supply pressure | |
| Low air capacity | 0...7 bar ¹⁾ |
| High air capacity | 3...7 bar |
| Pilot air port | Threaded connection G 1/8, stainless steel |

Positioning system

Low air capacity

| | |
|----------------------|--|
| Single-acting | 7 I _N /min for aeration and ventilation (Q _{Nn} value according to definition at pressure drop from 7 to 6 bar abs) |
| Actuator series/size | Type 23xx, actuator Ø 70/90 mm |

High air capacity

| | |
|----------------------|--|
| Single-acting | 130 I _N /min for aeration and ventilation (Q _{Nn} value according to definition at pressure drop from 7 to 6 bar abs) |
| Actuator series/size | Type 23xx, actuator Ø 130/225 mm Type 27xx, actuator Ø 175/225 mm |

Approvals and conformities

Explosion protection

| | |
|---------------------------|--|
| Ignition protection class | II 3D Ex tc IIIC T135 °C Dc II 3G Ex ec IIC T4 Gc |
|---------------------------|--|

| | |
|------|---|
| ATEX | BVS 14 ATEX E 008 X II 3D Ex tc IIIC T135 °C Dc II 3G Ex ec IIC T4 Gc |
|------|---|

| | |
|-------|---|
| IECEX | IECEX BVS 14.0009 X Ex tc IIIC T135 °C Dc Ex ec IIC T4 Gc |
|-------|---|

Further information can be found in chapter [“2.4. Explosion protection” on page 7.](#)

North America (USA/Canada)

| | |
|----------------------------------|---|
| UL Listed for the USA and Canada | cULus certificate: E238179 Further information can be found in chapter “2.5. North America (USA/Canada)” on page 7. |
| FM Explosion Protection | Increased Safety for Class I, Zone 2, AEx ec IIC T4 Gc hazardous (classified) locations, indoors and outdoors (IP54). Alternatively marked as Class I Division 2 Groups A, B, C, and D; T4. Further information can be found in chapter “2.5. North America (USA/Canada)” on page 7. |

Others

| | |
|--------------------------------------|---|
| China Compulsory Certification (CCC) | The products with Ex approval are suitable for import and use for hazardous applications in China. Further information can be found in chapter “2.6. Others” on page 7. |
|--------------------------------------|---|

Further information can be found in chapter [“2. Approvals and conformities” on page 7.](#)

Environment and installation

Operating conditions

| | |
|----------------------|--|
| Ambient temperature | - 10...+ 60 °C |
| Degree of protection | IP65/IP67 according to EN 60529, 4X according to NEMA 250 Standard |
| Operating altitude | Up to 2000 m above sea level |

Installation and mechanical data

| | |
|-----------------------------|--|
| Mounting variant | Direct mounting |
| Installation position | As required, preferably with actuator in upright position |
| Valve actuator (type, size) | ELEMENT Type 23xx, actuator size Ø 70/90/130/225 mm CLASSIC Type 27xx, actuator size Ø 175/225 mm |
| Adapter kit | Further information can be found in chapter “Adapter kits” on page 17. |

1.) The supply pressure applied must be 0.5 to 1 bar above the minimum required pilot pressure of the valve actuator.

1.2. Without fieldbus communication: 24 V DC

| Electrical data | |
|---------------------------------|---|
| Operating voltage | 24 V DC \pm 25 % UL: NEC Class 2 |
| Residual ripple | 10 % |
| Power consumption | \leq 3.5 W |
| Protection class | III according to DIN EN 61140 |
| Electrical connection | |
| Multipole variant | M12, 8-pin |
| Cable gland variant | M16 \times 1.5 (cable \varnothing 5...10 mm) with terminals for cable cross-sections 0.14...1.5 mm ² |
| Input/Output | |
| Digital input | 1 digital input 0...5 V = log „0“, 10...30 V = log „1“ |
| Analogue output | 1 output (optional) 0/4...20 mA |
| Input data set-point | |
| Set-point signal | |
| Default set-point value setting | 4...20 mA 0...20 mA (configurable via communication interface) |
| Input resistance | 75 Ω |

1.3. With fieldbus communication: AS-Interface

| Product properties | |
|--|--|
| Profile | S- 7.3.4 output: 16 Bit set-point/certificate no. 137401 according to specification V3.0 S- 7.A.5 output: 16 Bit set-point; input: 16 Bit actual value/certificate no. 137401 according to specification V3.0 |
| Electrical data | |
| Operating voltage | |
| Via Bus cable | Via ASi power supply 29.5...31.6 V DC (according to specification), UL: NEC Class 2 |
| Protection class | III according to DIN EN 61140 |
| Power consumption | |
| Maximum current consumption | 150 mA |
| Electrical connection | M12, 4-pin stainless steel plug, with 80 cm cable |
| Unit with additional actuator supply (AUX Power) | External power supply 24 V DC \pm 10 % (the power supply unit must contain a safe isolation according to IEC 364 - 4 - 41 (PELV or SELV)) |
| System supply | Max. 150 mA without additional actuator supply (AUX Power) Max. 50 mA with additional actuator supply |
| Actuator supply | Max. 50 mA with additional actuator supply |

1.4. With digital communication: IO-Link

| Electrical data | |
|---------------------------------|---|
| Electrical connection | M12 × 1, 5-pin, A-coded |
| IO-Link specification | 1.1 |
| SIO mode | No |
| VendorID | 0×0078, 120 |
| DeviceID | See IODD file (The IODD file can be downloaded from our website Type 8694 ▶, see Software > Device Description Files) |
| Transmission rate | 230.4 kbit/s (COM 3) |
| Data storage | Yes |
| Cable length | Max. 20 m |
| Port Class | A and B |
| Power supply | Via IO-Link |
| Port Class A | |
| Operating voltage | 24 V DC ± 25 % (according to specification) |
| Current consumption | Max. 150 mA |
| Port Class B | |
| Operating voltage | |
| System supply (Pin 1 + 3) | 24 V DC ± 25 % (according to specification) |
| Actuator supply (Pin 2 + 5) | 24 V DC ± 25 % (according to specification) |
| Current consumption | |
| System supply (Pin 1 + 3) | Max. 50 mA |
| Actuator supply (Pin 2 + 5) | Max. 100 mA |
| Total power consumption overall | Max. 3.5 W |

1.5. With digital communication: Bürkert system bus (büS)

| Electrical data | |
|---------------------------------|---|
| Operating voltage | 18...30 V DC (according to specification) |
| Electrical connection | M12 × 1, 5-pin, A-coded |
| Current consumption | Max. 150 mA |
| Total power consumption overall | Max. 3.5 W |

2. Approvals and conformities

2.1. General notes

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

2.2. Conformity

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

2.3. Standards

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

2.4. Explosion protection

| Approval | Description |
|---|--|
|   | Optional: Explosion protection ATEX: BVS 14 ATEX E 008 X II 3D Ex tc IIIC T135 °C Dc II 3G Ex ec IIC T4 Gc IECEX: IECEX BVS 14.0009 X Ex tc IIIC T135 °C Dc Ex ec IIC T4 Gc |

2.5. North America (USA/Canada)

| Approval | Description |
|---|---|
|  | Optional: UL Listed for the USA and Canada The products are UL Listed for the USA and Canada according to: <ul style="list-style-type: none"> • UL 61010-1 (ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL, AND LABORATORY USE – Part 1: General Requirements) • CAN/CSA-C22.2 No. 61010-1 |
|  | Optional: FM (Factory Mutual) – Explosion Protection Increased Safety for Class I, Zone 2, AEx ec IIC T4 Gc hazardous (classified) locations, indoors and outdoors (IP54). Alternatively marked as Class I Division 2 Groups A, B, C, and D; T4. |

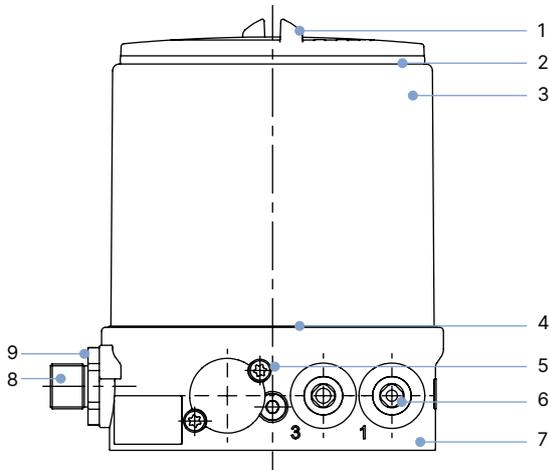
2.6. Others

China Compulsory Certification (CCC)

| Conformity | Description |
|---|---|
|  | Optional: China Compulsory Certification (CCC) The products with Ex approval are suitable for import and use for hazardous applications in China. |

3. Materials

3.1. Material specifications



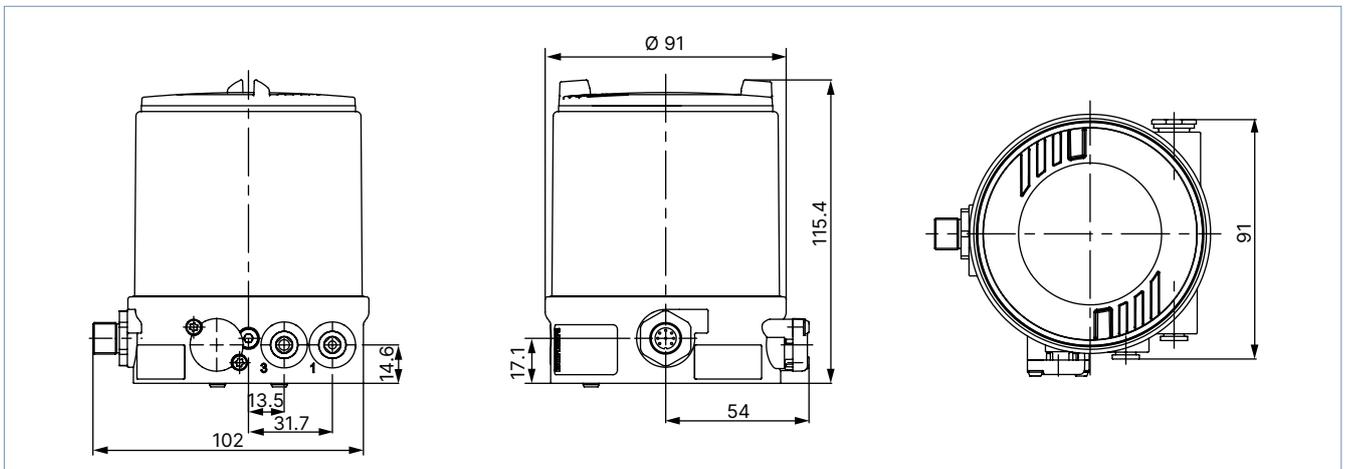
| No. | Element | Material |
|-----|--|--|
| 1 | Cover | PC |
| 2 | Seal | EPDM |
| 3 | Body casing | Stainless steel |
| 4 | Seal | EPDM |
| 5 | Screws | Stainless steel |
| 6 | Push-in connector Threaded port G 1/8 | POM/stainless steel Stainless steel |
| 7 | Basic housing | PPS |
| 8 | M12 plug connector | Stainless steel |
| 9 | Screws | Stainless steel |

4. Dimensions

4.1. Mounting on ELEMENT control valve Type 23xx / 2103

Note:

Dimensions in mm, unless otherwise stated

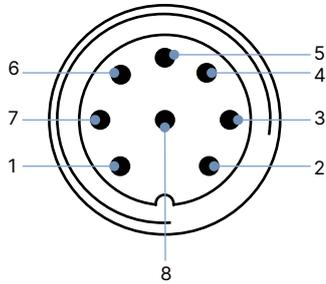


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5. Product connections

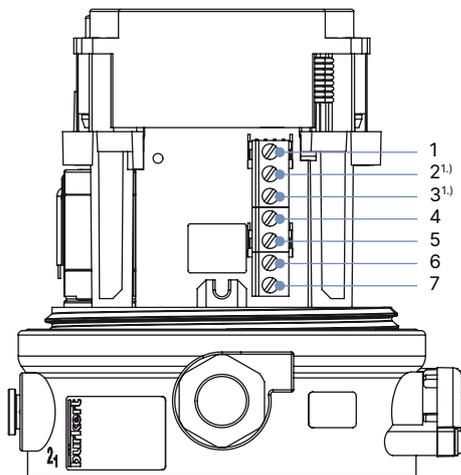
5.1. Electrical connection

Without fieldbus communication 24 V DC



| Pin | Pin assignment |
|-----|---------------------------------------|
| 1 | Set-point + (0/4...20 mA) |
| 2 | Set-point GND |
| 3 | Operating voltage GND |
| 4 | Operating voltage + 24 V DC |
| 5 | Digital input + |
| 6 | Digital input GND |
| 7 | Analogue position feedback GND |
| 8 | Analogue position feedback + (option) |

Cable gland



Input signal

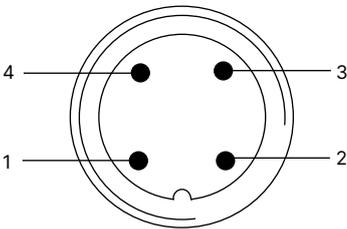
| Terminal | Pin assignment |
|----------|------------------|
| 1 | Digital input + |
| 4 | Set-point + |
| 5 | Set-point GND |
| 6 | Power supply + |
| 7 | Power supply GND |

Output signal with analogue feedback option

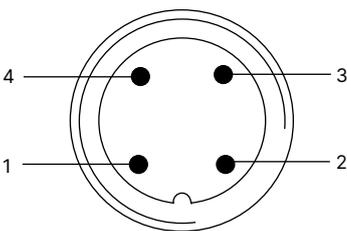
| Terminal | Pin assignment |
|----------|-----------------------|
| 2 | Analogue feedback + |
| 3 | Analogue feedback GND |

AS-Interface connection

| M12 circular plug, 4-pin, without external power supply | | | |
|---|-------------|--------------------------|--|
| Pin | Description | Pin assignment | |
| 1 | Bus + | Bus cable AS-Interface + | |
| 2 | NC | Not assigned | |
| 3 | Bus - | Bus cable AS-Interface - | |
| 4 | NC | Not assigned | |

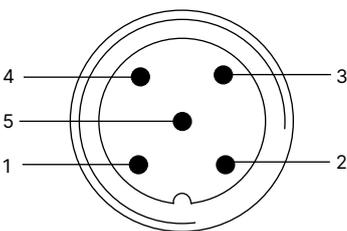


| M12 circular plug, 4-pin, with external power supply (on request) | | | |
|---|-------------------|--------------------------|--|
| Pin | Description | Pin assignment | |
| 1 | Bus + | Bus cable AS-Interface + | |
| 2 | GND (optional) | External power supply | |
| 3 | Bus - | Bus cable AS-Interface - | |
| 4 | 24 V + (optional) | External power supply | |

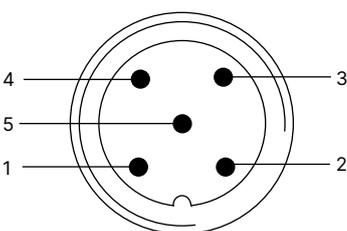


IO-Link connection

| M12 circular plug, 5-pin, Port Class A | | | |
|--|-------------|----------------|---------------|
| Pin | Description | Pin assignment | |
| 1 | L + | 24 V DC | System supply |
| 2 | I/Q | NC | Not connected |
| 3 | L - | 0 V (GND) | System supply |
| 4 | C/Q | IO-Link | Communication |
| 5 | NC | NC | Not connected |

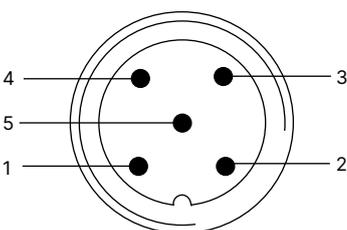


| M12 circular plug, 5-pin, Port Class B | | | |
|--|-------------|----------------|-----------------|
| Pin | Description | Pin assignment | |
| 1 | L + | 24 V DC | System supply |
| 2 | P24 | 24 V DC | Actuator supply |
| 3 | L - | 0 V (GND) | System supply |
| 4 | C/Q | IO-Link | Communication |
| 5 | N24 | 0 V (GND) | Actuator supply |



Bürkert system bus (būS connection)

| M12 circular plug, 5-pin | | |
|--------------------------|---|---------------|
| Pin | Description | Cable colour |
| 1 | CAN shielding | CAN shielding |
| 2 | + 24 V DC \pm 25 %, max. residual ripple 10 % | Red |
| 3 | GND/CAN_GND | Black |
| 4 | CAN_H | White |
| 5 | CAN_L | Blue |

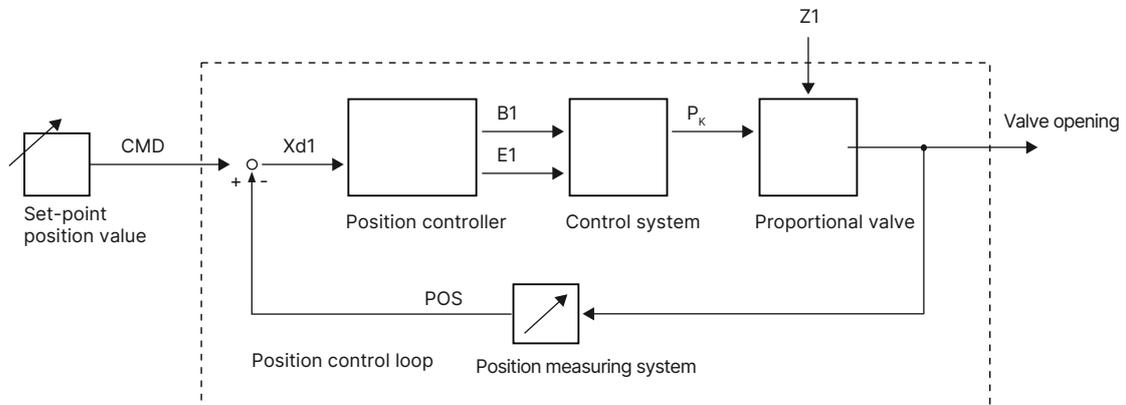


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6. Performance specifications

6.1. Signal flow diagram

Position control loop

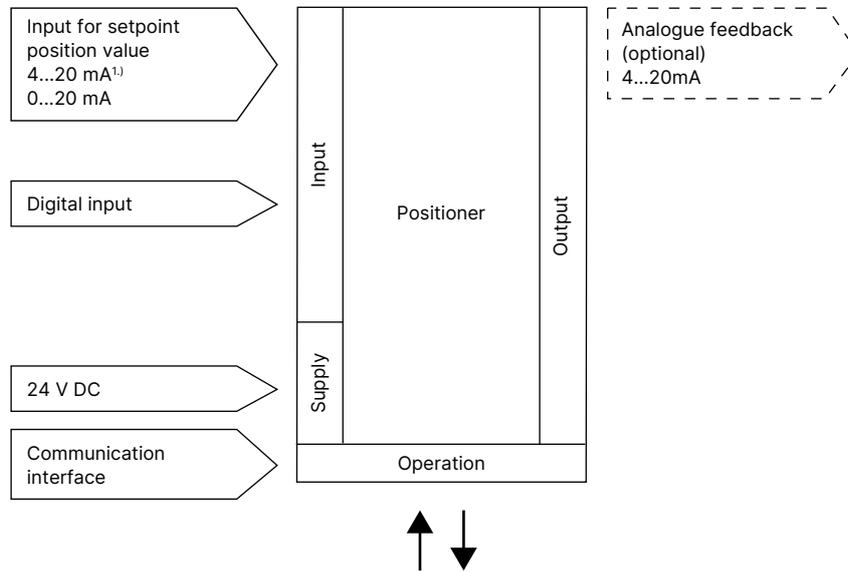


Additional software options of the TopControl BASIC positioner Type 8694 (extract)

- X.Tune function for automatic start-up
- Linear characteristic
- Close-tight function
- Reversal of the operating direction of the set-point signal
- Switching between manual and automatic mode
- Digital input
- Device operation via service bÜS interface and communicator
- Set-point value selection (0/4...20 mA)
- Position controller parametrisation
- Programmable stroke range limit
- Limitation of opening/closing time
- Safety position definition
- Signal error detection
- Digital input configuration
- Analogue output configuration position set-point/feedback
- Setting set-point/actuator direction (rise/fall)
- Resetting the device to factory settings

6.2. Interface diagram

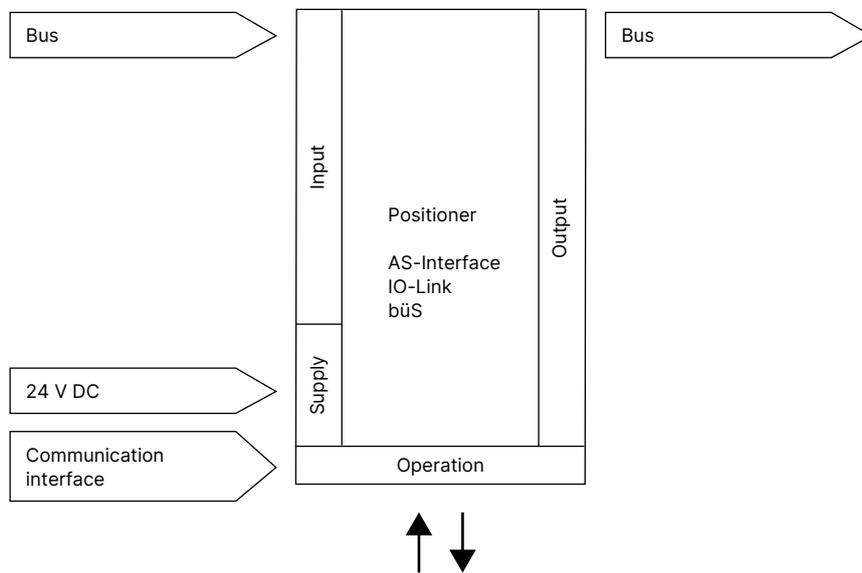
Variant without fieldbus communication



1.) Default setting

Variant with fieldbus communication

With AS-Interface, IO-Link and Bürkert system bus (büs)



7. Product installation

7.1. Combination options with pneumatic process valves

Note:

A **TopControl control valve system** consists of a **BASIC Positioner Type 8694** and an **ELEMENT control valve Type 23xx** resp. **Type 2103**.

The following information is required to select a complete system:

- **Article no.** of the desired **TopControl BASIC positioner**, see **data sheet Type 8694**
- **Article no.** of the desired **control valve Type 23xx / 2103**, see **data sheet Type 2300 ▶, Type 2301 ▶ and Type 2103 ▶**

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

Example of variations of the control valve system



1.) See data sheet **Adaptations for third-party actuators Type KK01 ▶** or contact the appropriate Bürkert sales office.

8. Ordering information

8.1. Bürkert eShop



Bürkert eShop – Easy ordering and quick delivery

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

[Order online now](#)

8.2. Bürkert product filter



Bürkert product filter – Get quickly to the right product

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

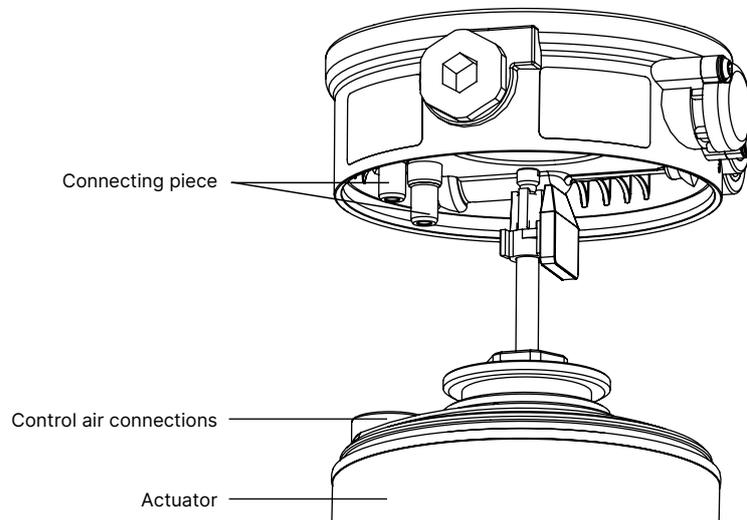
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8.3. Ordering chart

Linear displacement sensor/internal control air supply

Note:

All standard variants are UL-approved.



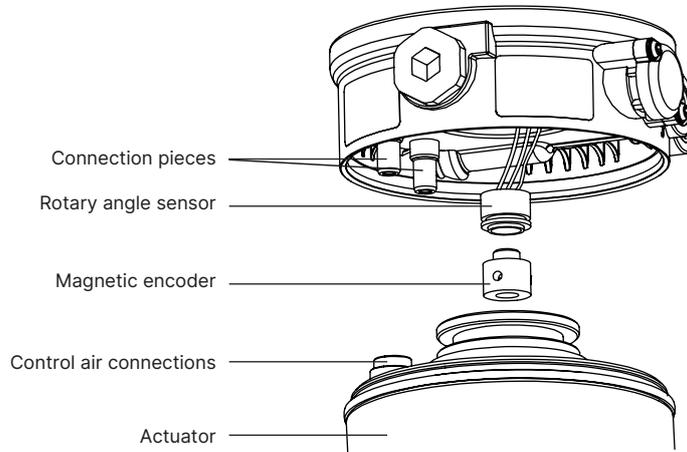
| Circuit function Pilot valve system | Communication | Electrical connection | Feedback-Signal | Pilot air ports threaded connection | Article no. | | |
|--|----------------------|---------------------------------|-----------------|-------------------------------------|-------------|---|---|
| | | | | | Standard | ATEX II Kat. 3G/D, IECEx, CCC ¹⁾ | ATEX II Kat. 3G/D IECEx / cFMus Cl. I Div. II |
| Actuator series ELEMENT Type 23xx, actuator size Ø 70/90 mm | | | | | | | |
| Low air capacity single-acting | - | M12 plug connector | - | G 1/8 | 323240 | 389216 | - |
| | | | Analogue | G 1/8 | 323256 | 389217 | - |
| | | Cable gland | - | G 1/8 | 323248 | 389214 | 20054455 |
| | | | Analogue | G 1/8 | 323266 | 389215 | 20048377 |
| | AS-Interface S-7A.5 | M12 plug connector/ 80 cm cable | Digital | G 1/8 | 20088322 | 20088328 | - |
| | IO-Link Port Class A | M12 multipole | Digital | G 1/8 | 20032463 | 20032469 | - |
| | IO-Link Port Class B | M12 multipole | Digital | G 1/8 | 323232 | 389233 | - |
| büS | M12 multipole | Digital | G 1/8 | 323236 | 389237 | - | |
| Actuator series ELEMENT Type 23xx, actuator size Ø 130/225 mm | | | | | | | |
| High air capacity single-acting | - | M12 plug connector | - | G 1/8 | 323241 | 389225 | - |
| | | | Analogue | G 1/8 | 323258 | 389226 | - |
| | | Cable gland | - | G 1/8 | 323249 | 389223 | 20054459 |
| | | | Analogue | G 1/8 | 323267 | 389224 | 20054460 |
| | AS-Interface S-7A.5 | M12 plug connector/ 80 cm cable | Digital | G 1/8 | 20088324 | 20088330 | - |
| | IO-Link Port Class A | M12 multipole | Digital | G 1/8 | 20032465 | 20032470 | - |
| | IO-Link Port Class B | M12 multipole | Digital | G 1/8 | 323233 | 389234 | - |
| büS | M12 multipole | Digital | G 1/8 | 323237 | 389238 | - | |

1.) CCC (China Compulsory Certificate) for device variants with Ex approval

Rotary displacement sensor/internal control air supply

Note:

All standard variants are UL-approved.



| Circuit function Pilot valve system | Communication | Electrical connection | Feedback-Signal | Article no. | | |
|--|----------------------|---------------------------------|-----------------|-------------|---|---|
| | | | | Standard | ATEX II Kat. 3G/D, IECEx, CCC ¹⁾ | ATEX II Kat. 3G/D IECEx / cFMus Cl. I Div. II |
| Actuator series ELEMENT Type 23xx, actuator size Ø 70/90 mm | | | | | | |
| Low air capacity single-acting | - | M12 plug connector | - | o. r. | o. r. | - |
| | | | Analogue | 20126128 ☒ | o. r. | - |
| | | Cable gland | - | 20068451 ☒ | 20068389 ☒ | 20054450 ☒ |
| | | | Analogue | 20068414 ☒ | 20126129 ☒ | 20126131 ☒ |
| | AS-Interface S- 7A.5 | M12 plug connector/ 80 cm cable | Digital | 20088325 ☒ | o. r. | - |
| | IO-Link Port Class A | M12 multipole | Digital | 20050837 ☒ | - | - |
| | IO-Link Port Class B | M12 multipole | Digital | o. r. | o. r. | - |
| Bürkert system bus | M12 multipole | Digital | 20030073 ☒ | o. r. | - | |
| Actuator series ELEMENT Type 23xx, actuator size Ø 130/225 mm | | | | | | |
| High air capacity single-acting | - | M12 plug connector | - | o. r. | o. r. | - |
| | | | Analogue | 20055801 ☒ | o. r. | - |
| | | Cable gland | - | 20061720 ☒ | 20126130 ☒ | o. r. |
| | Analogue | | 20068978 ☒ | 20087617 ☒ | 20126134 ☒ | |
| | AS-Interface S- 7A.5 | M12 plug connector/ 80 cm cable | Digital | 20088326 ☒ | o. r. | - |
| IO-Link Port Class A | M12 plug connector | Digital | 20084208 ☒ | o. r. | - | |

o. r. = on request

1.) CCC (China Compulsory Certificate) for device variants with Ex approval

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8.4. Ordering chart accessories

Standard accessories

Note:

Must be ordered separately.

| Description | Article no. |
|--|--|
| M12 circular socket with cable, 8-pin, cable length: 5 m, for input and output signals | 919267  |
| AS-interface flat cable clamp, M12 outlet, stainless steel outlet | 799646  |
| Silencer G 1/8 | 780779  |
| USB büS interface set 2 (Type 8923) for connection to the Bürkert Communicator software: including büS stick, connection cable to M12 plug, M12 connection cable on micro USB for the büS service interface and Y distributor, cable length: 0.7 m | 772551  |
| büS cable extension, M12, cable length: 1 m | 772404  |
| büS cable extension, M12, cable length: 3 m | 772405  |
| büS cable extension, M12, cable length: 5 m | 772406  |
| büS cable extension, M12, cable length: 10 m | 772407  |
| Sensor puck (spare part) | 682240  |
| Software Bürkert Communicator | Type 8920  |

Adapter kits

Note:

Must be ordered separately.

Adapter kits for third-party actuators can be found in the **data sheet Adaptations for third-party actuators Type KK01**  or contact the appropriate Bürkert sales office.

| Description | Actuator size | Control function | Article no. |
|---|----------------|------------------|--|
| Attachment kit for Type 21xx/23xx actuator series | Ø 70/90/130 mm | Universal | 679917  |
| Attachment kit for Type 21xx/23xx actuator series | Ø 225 mm | Universal | 60025906  |