

## Direct-acting 2-way standard solenoid control valve



Type 2873 can be combined with...



**Type 8605**  
Digital control electronics Cable plug version



**Type 2508**  
Cable plug

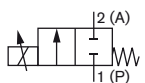


**Type 8611**  
Universal controller



The direct-acting solenoid control valve Type 2873 is used as the regulating unit in control loops. Due to an elastomeric seat seal the valve closes tight (integrated shut-off function), up to the DN specific nominal pressure. The plunger of the valve is assembled frictionless, which leads to an extraordinary adjustment characteristic. This valve is particularly suitable for demanding control tasks (high control range, dry gases, etc.).

### Circuit function A



2/2 way direct-acting, solenoid proportional control valve

Valve control takes place through a PWM signal<sup>1)</sup>. The duty cycle of the PWM signal determines the coil current and hence the position of the plunger. Optionally the valve can also be driven with DC voltage.

Please note the sizing comments for such a control valve on page 2.

<sup>1)</sup> PWM pulse width modulation

<sup>2)</sup> Pressure data [bar]: Measured as overpressure to the atmospheric pressure, orifice further depends on nominal pressure

<sup>3)</sup> Maximum value, value depends on operating pressure

<sup>4)</sup> Characteristic data of control behaviour depends on process conditions

<sup>5)</sup> by flow measurement

- Excellent range
- Very good response
- Compact valve design
- Orifice sizes 0.8 ... 6 mm
- Optional: Explosion-protected coil

| Technical Data - Valve                                  |                                                                                |
|---------------------------------------------------------|--------------------------------------------------------------------------------|
| <b>Body material</b>                                    | Brass, stainless steel                                                         |
| <b>Seal material</b>                                    | FKM, EPDM on request                                                           |
| <b>Medium</b>                                           | Neutral gases, liquids on request                                              |
| <b>Pressure range</b>                                   | 0 ... 16 bar <sup>2)</sup>                                                     |
| <b>Medium temperature</b>                               | -10 ... +90 °C                                                                 |
| <b>Ambient temperature</b>                              | max. +55 °C                                                                    |
| <b>Power supply</b>                                     | 24 V DC                                                                        |
| <b>PWM frequency</b>                                    | 1200 Hz                                                                        |
| <b>Power consumption</b>                                | 9 W                                                                            |
| <b>Max. coil current<sup>3)</sup></b>                   | 420 mA                                                                         |
| <b>Duty cycle</b>                                       | 100 % continuously rated                                                       |
| <b>Port connection</b>                                  | Sub-base, G 1/8, G 1/4, NPT 1/8, NPT 1/4, further on request                   |
| <b>Electrical connection</b>                            | Cable plug Type 2508 according to DIN EN 17530-803, industrial standard Form A |
| <b>Installation</b>                                     | As required, preferably with actuator in upright position                      |
| <b>Typical control data<sup>4)</sup> at PWM control</b> |                                                                                |
| Hysteresis                                              | <5 %                                                                           |
| Repeatability                                           | <0.5 % FS <sup>5)</sup>                                                        |
| Sensitivity                                             | <0.25 % of FS <sup>5)</sup>                                                    |
| Span                                                    | 1:200                                                                          |
| Response time (10-90 %)                                 | <20 ms                                                                         |
| <b>Protection class - valve</b>                         | IP65                                                                           |

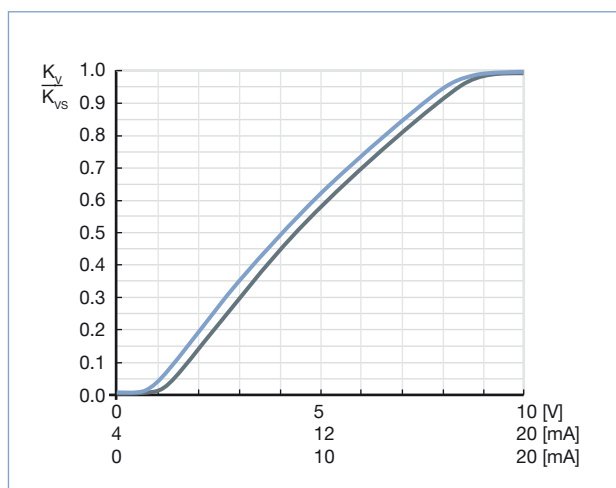
### Technical data - Control electronics Type 8605 (see separate datasheet)

The valve control can take place through the control electronics of Type 8605, which converts an analogue input signal into a PWM signal.

### Further functional features of the Type 8605 electronic control unit:

- Temperature compensation for coil heating by internal current regulation
- Simple adaptation of zero and span settings
- Ramp function to dampen fast set point changes

## Characteristics of a solenoid control valve



## Advice for valve sizing

In continuous flow applications, the choice of appropriate valve size is much more important than with on/off valves. The optimum size should be selected such that the resulting flow in the system is not unnecessarily reduced by the valve. However, a sufficient part of the pressure drop should be taken across the valve even when it is fully opened.

**Recommended value:  $\Delta p_{\text{valve}} > 25\%$  of total pressure drop within the system**

Otherwise the ideal linear valve curve characteristic is changed

If the differential pressure (difference between inlet and outlet pressure) exceeds half the value of the nominal pressure, the characteristics may change.

**For that reason take advantage of Bürkert competent engineering services during the planning phase!**

## Determination of the $k_v$ value

| Pressure drop                          | $k_v$ value for liquids [m³/h]          | $k_v$ value for gases [m³/h]                     |
|----------------------------------------|-----------------------------------------|--------------------------------------------------|
| Subcritical<br>$p_2 > \frac{p_1}{2}$   | $= Q \sqrt{\frac{\rho}{1000 \Delta p}}$ | $= \frac{Q_N}{514} \sqrt{\frac{T_1 p_N}{p_2 p}}$ |
| Supercritical<br>$p_2 < \frac{p_1}{2}$ | $= Q \sqrt{\frac{\rho}{1000 \Delta p}}$ | $= \frac{Q_N}{257 p_1} \sqrt{T_1 p_N}$           |

|            |                                   |                      |
|------------|-----------------------------------|----------------------|
| $k_v$      | Flow coefficient                  | [m³/h] <sup>6)</sup> |
| $Q_N$      | Standard flow rate                | [m³/h] <sup>7)</sup> |
| $p_1$      | Inlet pressure                    | [bar] <sup>8)</sup>  |
|            | Outlet pressure                   | [bar] <sup>8)</sup>  |
| $\Delta p$ | Differential pressure $p_1 - p_2$ | [bar]                |
| $\rho$     | Density                           | [kg/m³]              |
| $\rho_N$   | Standard density                  | [kg/m³]              |
| $T_1$      | Medium temperature                | [(273+t)K]           |

<sup>6)</sup> Measured for water 20 °C,  $\Delta p = 1$  bar, via the device

<sup>7)</sup> At reference conditions 1.013 bar and 0 °C (273K)

<sup>8)</sup> Absolute pressure

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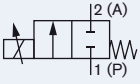
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## Ordering chart

## All valves with FKM seal

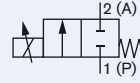
| Circuit function                                                                  | Orifice [mm] | Port connection | $k_{vs}$ value water [m <sup>3</sup> /h] <sup>9)</sup> | Nominal pressure [bar] <sup>10)</sup> | Max. differential pressure [bar] | Article no. Brass | Article no. Stainless steel |
|-----------------------------------------------------------------------------------|--------------|-----------------|--------------------------------------------------------|---------------------------------------|----------------------------------|-------------------|-----------------------------|
|  | 0.8          | sub-base FK01   | 0.018                                                  | 16                                    | 8                                | 234291            | 234306                      |
|                                                                                   |              | G 1/8           | 0.018                                                  | 16                                    | 8                                | 234289            | 234305                      |
|                                                                                   |              | NPT 1/8         | 0.018                                                  | 16                                    | 8                                | 236229            | 236230                      |
|                                                                                   | 1.2          | sub-base FK01   | 0.040                                                  | 12                                    | 6                                | 234293            | 234308                      |
|                                                                                   |              | G 1/8           | 0.040                                                  | 12                                    | 6                                | 234292            | 234307                      |
|                                                                                   |              | NPT 1/8         | 0.040                                                  | 12                                    | 6                                | 236231            | 236232                      |
|                                                                                   | 1.5          | sub-base FK01   | 0.060                                                  | 10                                    | 5                                | 234295            | 234310                      |
|                                                                                   |              | G 1/8           | 0.060                                                  | 10                                    | 5                                | 234294            | 234309                      |
|                                                                                   |              | NPT 1/8         | 0.060                                                  | 10                                    | 5                                | 236233            | 236234                      |
|                                                                                   | 2.0          | sub-base FK01   | 0.100                                                  | 8                                     | 4                                | 234298            | 234313                      |
|                                                                                   |              | G 1/8           | 0.100                                                  | 8                                     | 4                                | 234296            | 234311                      |
|                                                                                   |              | NPT 1/8         | 0.100                                                  | 8                                     | 4                                | 236235            | 236236                      |
|                                                                                   |              | G 1/4           | 0.100                                                  | 8                                     | 4                                | 234297            | 234312                      |
|                                                                                   |              | NPT 1/4         | 0.100                                                  | 8                                     | 4                                | 236237            | 236238                      |
|                                                                                   | 2.5          | sub-base FK01   | 0.150                                                  | 5                                     | 2.5                              | 234300            | 234315                      |
|                                                                                   |              | G 1/4           | 0.150                                                  | 5                                     | 2.5                              | 234299            | 234314                      |
|                                                                                   |              | NPT 1/4         | 0.150                                                  | 5                                     | 2.5                              | 236239            | 236241                      |
|                                                                                   | 3.0          | sub-base FK01   | 0.220                                                  | 3.5                                   | 1.75                             | 234302            | 234317                      |
|                                                                                   |              | G 1/4           | 0.220                                                  | 3.5                                   | 1.75                             | 234301            | 234316                      |
|                                                                                   |              | NPT 1/4         | 0.220                                                  | 3.5                                   | 1.75                             | 236242            | 236243                      |
|                                                                                   | 4.0          | sub-base FK01   | 0.320                                                  | 2                                     | 1                                | 234304            | 234319                      |
|                                                                                   |              | G 1/4           | 0.320                                                  | 2                                     | 1                                | 234303            | 234318                      |
|                                                                                   |              | NPT 1/4         | 0.320                                                  | 2                                     | 1                                | 236244            | 236245                      |

<sup>9)</sup>  $k_{vs}$  value: Flow rate value for water, measured at +20 °C and 1 bar pressure differential over a fully opened valve.

<sup>10)</sup> **Pressure data [bar]:** Overpressure with respect to atmospheric pressure, with a differential pressure (difference between inlet and outlet pressure) above half of the nominal pressure there are discontinuities in the valve's characteristics p

## Ordering chart - variants for higher differential pressures

## All valves with FKM seal

| Circuit function                                                                    | Orifice | Port connection | Approvals    | $k_{vs}$ value water [m <sup>3</sup> /h] | Nominal pressure [bar] | Article no. Brass | Article no. Stainless steel |
|-------------------------------------------------------------------------------------|---------|-----------------|--------------|------------------------------------------|------------------------|-------------------|-----------------------------|
|  | 0.8     | G 1/8           |              | 0.018                                    | 16                     | 239070            | 239072                      |
|                                                                                     |         | G 1/8           | UR           | 0.018                                    | 16                     | 275009            | 275016                      |
|                                                                                     |         | G 1/8           | ATEX / IECEx | 0.018                                    | 8                      | 304465            | on request                  |
|                                                                                     | 1.2     | G 1/8           |              | 0.040                                    | 12                     | 239073            | 239074                      |
|                                                                                     |         | G 1/8           | UR           | 0.040                                    | 12                     | 275010            | 275018                      |
|                                                                                     |         | G 1/8           | ATEX / IECEx | 0.040                                    | 6                      | 330865            | on request                  |
|                                                                                     | 1.5     | G 1/8           |              | 0.060                                    | 10                     | 239075            | 239076                      |
|                                                                                     |         | G 1/8           | UR           | 0.060                                    | 10                     | 275011            | 275019                      |
|                                                                                     |         | G 1/8           | ATEX / IECEx | 0.060                                    | 6                      | 326019            | on request                  |
|                                                                                     | 2       | G 1/8           |              | 0.100                                    | 8                      | 239077            | 239078                      |
|                                                                                     |         | G 1/8           | UR           | 0.100                                    | 8                      | 275012            | 275020                      |
|                                                                                     |         | G 1/8           | ATEX / IECEx | 0.100                                    | 6                      | 330866            | on request                  |
|                                                                                     | 2.5     | G 1/4           |              | 0.150                                    | 5                      | 239079            | 239080                      |
|                                                                                     |         | G 1/4           | UR           | 0.150                                    | 5                      | 275013            | 275022                      |
|                                                                                     |         | G 1/4           | ATEX / IECEx | 0.150                                    | 3                      | 330867            | on request                  |
|                                                                                     | 3.0     | G 1/4           |              | 0.220                                    | 3.5                    | 239081            | 239082                      |
|                                                                                     |         | G 1/4           | UR           | 0.220                                    | 3.5                    | 275014            | 275023                      |
|                                                                                     |         | G 1/4           | ATEX / IECEx | 0.220                                    | 2                      | 330868            | on request                  |
|                                                                                     | 4.0     | G 1/4           |              | 0.320                                    | 2                      | 239083            | 239084                      |
|                                                                                     |         | G 1/4           | UR           | 0.320                                    | 2                      | 275015            | 275024                      |
|                                                                                     |         | G 1/4           | ATEX / IECEx | 0.320                                    | 1                      | 330869            | on request                  |
|                                                                                     | 5.0     | G 1/4           |              | 0.430                                    | 0.8                    | 280645            | on request                  |
|                                                                                     | 6.0     | G 1/4           |              | 0.580                                    | 0.5                    | 254419            | on request                  |

**Note:** The following technical data changes compared with the data on page 1

PWM frequency 800 Hz, span 1:100.

Other connection variations (sub-base, NPT) on request.

## Ordering chart - variants with approvals

## All valves with FKM seal

| Circuit function | Orifice | Port connection <sup>12)</sup> | Approvals <sup>11)</sup> | k <sub>vs</sub> value water [m³/h] | Nominal pressure [bar] | Max. differential pressure [bar] | Article no. Brass | Article no. Stainless steel |
|------------------|---------|--------------------------------|--------------------------|------------------------------------|------------------------|----------------------------------|-------------------|-----------------------------|
|                  | 0.8     | UR                             | G 1/8                    | 0.018                              | 16                     | 8                                | 274944            | 274960                      |
|                  |         |                                | NPT 1/8                  | 0.018                              | 16                     | 8                                | 274945            | 274961                      |
|                  | 1.2     | UR                             | ATEX / IECEx G 1/8       | 0.018                              | 8                      | 4                                | 304473            | on request                  |
|                  |         |                                | G 1/8                    | 0.040                              | 12                     | 6                                | 274946            | 274962                      |
|                  |         |                                | NPT 1/8                  | 0.040                              | 12                     | 6                                | 274947            | 274963                      |
|                  | 1.5     | UR                             | ATEX / IECEx G 1/8       | 0.040                              | 6                      | 3                                | 304474            | on request                  |
|                  |         |                                | G 1/8                    | 0.060                              | 10                     | 5                                | 274948            | 274964                      |
|                  |         |                                | NPT 1/8                  | 0.060                              | 10                     | 5                                | 274949            | 274965                      |
|                  | 2       | UR                             | ATEX / IECEx G 1/8       | 0.060                              | 6                      | 3                                | 304475            | on request                  |
|                  |         |                                | G 1/8                    | 0.100                              | 8                      | 4                                | 274950            | 274966                      |
|                  |         | UR                             | NPT 1/8                  | 0.100                              | 8                      | 4                                | 274951            | 274967                      |
|                  |         |                                | ATEX / IECEx G 1/8       | 0.100                              | 6                      | 3                                | 304476            | on request                  |
|                  | 2.5     | UR                             | G 1/4                    | 0.100                              | 8                      | 4                                | 274952            | 274968                      |
|                  |         |                                | NPT 1/4                  | 0.100                              | 8                      | 4                                | 274953            | 274969                      |
|                  |         | UR                             | G 1/4                    | 0.150                              | 5                      | 2.5                              | 274954            | 274970                      |
|                  |         |                                | NPT 1/4                  | 0.150                              | 5                      | 2.5                              | 274955            | 274971                      |
|                  | 3.0     | UR                             | ATEX / IECEx G 1/4       | 0.150                              | 3                      | 1.5                              | 304470            | on request                  |
|                  |         |                                | G 1/4                    | 0.220                              | 3.5                    | 1.75                             | 274956            | 274972                      |
|                  |         | UR                             | NPT 1/4                  | 0.220                              | 3.5                    | 1.75                             | 274957            | 274973                      |
|                  |         |                                | ATEX / IECEx G 1/4       | 0.220                              | 2                      | 1                                | 304477            | on request                  |
|                  | 4.0     | UR                             | G 1/4                    | 0.320                              | 2                      | 1                                | 274958            | 274974                      |
|                  |         |                                | NPT 1/4                  | 0.320                              | 2                      | 1                                | 274959            | 274975                      |
|                  |         | ATEX / IECEx                   | G 1/4                    | 0.320                              | 1                      | 0.5                              | 304472            | on request                  |

<sup>11)</sup> Approvals: UR (UL recognized)  
 ATEX – II 2 G Ex mb IIC T4...T5 Gb, II 2 D Ex mb IIIC T130°C Db  
 IECEx – Ex mb IIC T4...T5 Gb, Ex mb IIIC T130°C Db

<sup>12)</sup> Port connection: Others on request.

**Note:** Delivery without electronic control, Type 8605 and cableplug (see ordering chart for accessories).

## Ordering chart for accessories

## Cable plug Type 2508 according to DIN EN 175301-803 Form A

The delivery of a cable plug includes the flat seal and fixing screw

| Circuitry            | Voltage/<br>Frequency | Article no. |
|----------------------|-----------------------|-------------|
| None                 | 0-250 V AC/DC         | 008376      |
| None, with 3 m cable | 0-250 V AC/DC         | 783573      |

**Control electronics, Type 8605** - please see datasheet



## Further versions on request



## Materials

Seal materials EPDM, FFKM



## Analytical

Oxygen version  
 Parts oil-, fat- and silicon free



## Electrical connection

12 V Coil

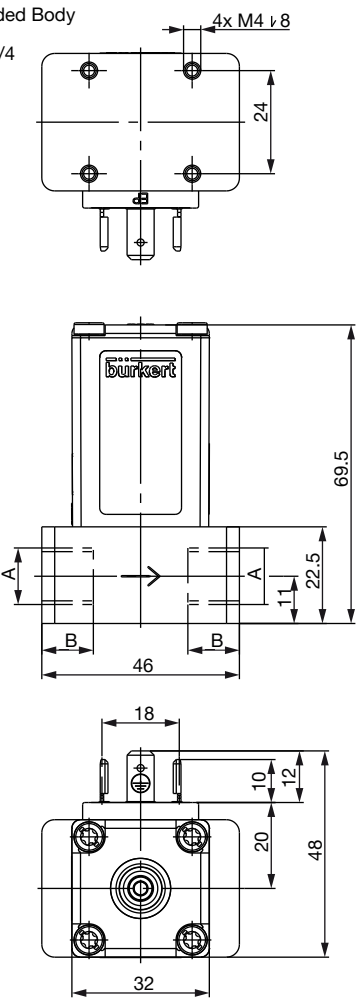


## Approvals

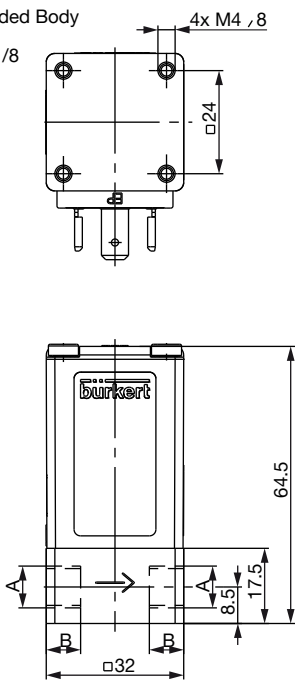
UR (UL recognized)  
 DVGW / Gas device guidelines  
 ATEX / IECEx

Dimensions [mm] - Threaded body

Threaded Body  
G 1/4  
NPT 1/4

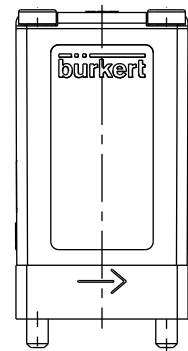
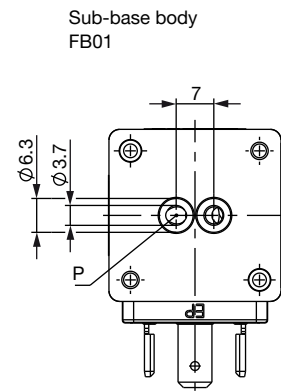
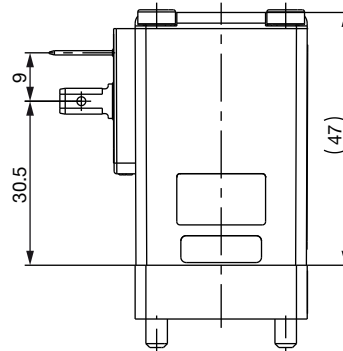
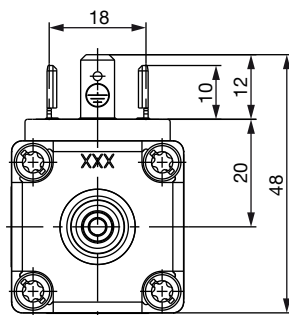
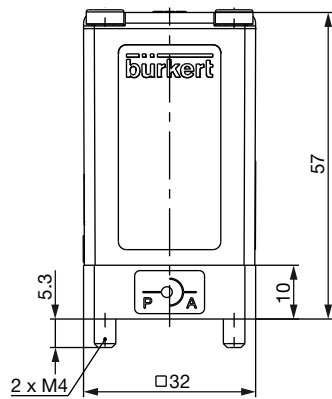
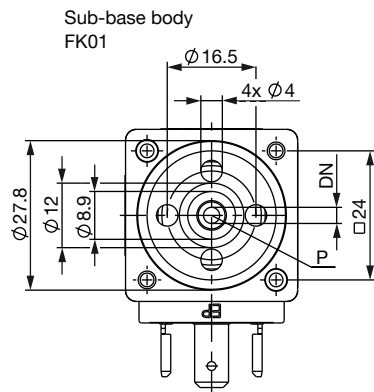


Threaded Body  
G 1/8  
NPT 1/8

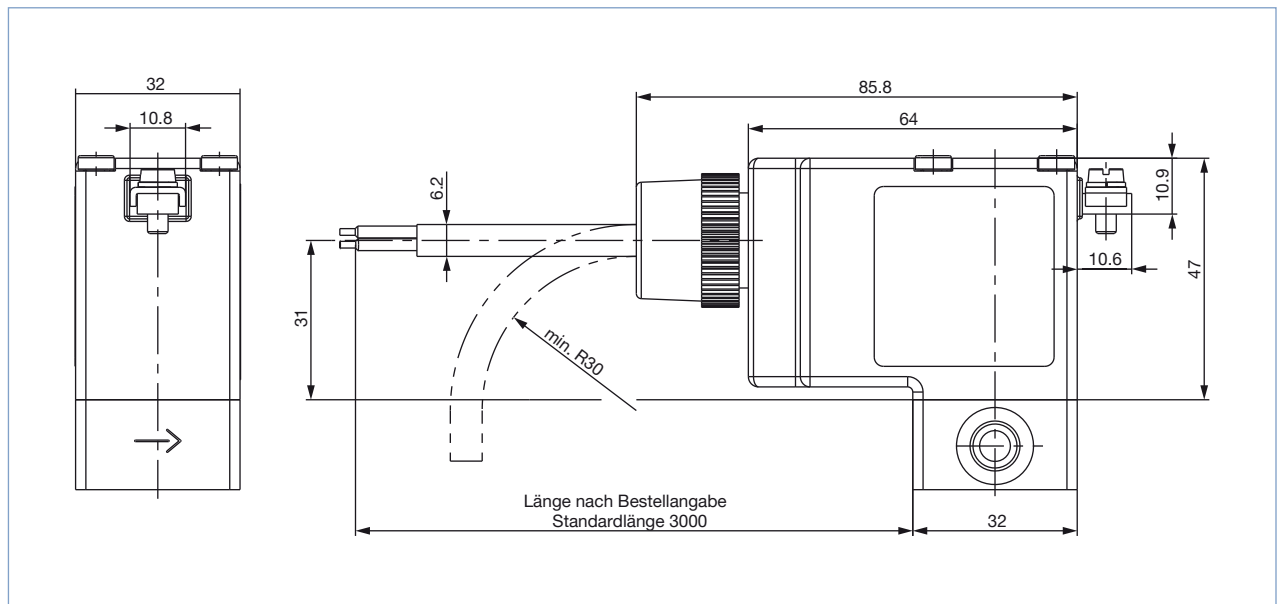


| Valve body<br>version | Threaded port |         |       |         |
|-----------------------|---------------|---------|-------|---------|
|                       | G 1/4         | NPT 1/4 | G 1/8 | NPT 1/8 |
| A                     | 12            | 10      | 8     | 7       |
| B                     |               |         |       |         |

## Dimensions [mm] - Sub-base body



## Dimensions [mm] - ATEX



## Auslegungsdaten für Proportionalventile

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| <b>Prozessdaten</b>                                    |                                            |                                                      |
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| <input type="checkbox"/> Zustand des Mediums           | <input type="checkbox"/> flüssig           | <input type="checkbox"/> gasförmig                   |
| Mediumstemperatur                                      | <input type="text"/> °C                    |                                                      |
| <input type="checkbox"/> Maximaler Durchfluss          | $Q_{\text{Nenn}} =$ <input type="text"/>   | Einheit: <input type="text"/>                        |
| <input type="checkbox"/> Minimaler Durchfluss          | $Q_{\text{min}} =$ <input type="text"/>    | Einheit: <input type="text"/>                        |
| <input type="checkbox"/> Eingangsdruck bei Nennbetrieb | $p_1 =$ <input type="text"/>               | bar (ü)                                              |
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| Max. Eingangsdruck (Nennndruck)                        | $p_{1 \text{ max}} =$ <input type="text"/> | bar (ü)                                              |
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| Dichtwerkstoff                                         | <input type="checkbox"/> FKM               | <input type="checkbox"/> andere <input type="text"/> |

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## Proportionalventile der Standard-Baureihe



**Typ 2871**  
Nennweite 0,05 bis 2 mm  
20 mm Spulenbreite



**Typ 2873**  
Nennweite 0,8 bis 6 mm  
32 mm Spulenbreite



**Typ 2875**  
Nennweite 2 bis 9,5 mm  
49 mm Spulenbreite

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