Please carefully read these operating instructions before use. · Do not discard.
The operator shall be liable for any damage caused by installation or operating errors.
The latest version of the operating instructions are available on our homepage.
Supplemental instructions

General non-discriminatory approach

In order to make it easier to read, this document uses the male form in grammatical structures but with an implied neutral sense. It is aimed equally at both men and women. We kindly ask female readers for their understanding in this simplification of the text.

Supplementary information

Please read the supplementary information in its entirety.

Information

This provides important information relating to the correct operation of the unit or is intended to make your work easier.

Safety Information

The safety information includes detailed descriptions of the hazardous situation, see Chapter 2.1 ‘Explanation of the safety information’ on page 5

The following symbols are used to highlight instructions, links, lists, results and other elements in this document:

More symbols

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. ⇦</td>
<td>Action, step by step</td>
</tr>
<tr>
<td>⇧</td>
<td>Outcome of an action</td>
</tr>
<tr>
<td>☞</td>
<td>Links to elements or sections of these instructions or other applicable documents</td>
</tr>
<tr>
<td>[ ]</td>
<td>List without set order</td>
</tr>
</tbody>
</table>
| [Button] | Display element (e.g. indicators)  
Operating element (e.g. button, switch) |
| ‘Display /GUI’ | Screen elements (e.g. buttons, assignment of function keys) |
| CODE   | Presentation of software elements and/or texts |
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2.2 Users’ qualifications ........................................................................................................ 7

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2.4 Intended Use .................................................................................................................. 10

3 Storage and Transport .......................................................................................................... 11

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Overview of Types

The metering monitors "Flow Control" sizes 1 and 2 are suitable for metering pumps of the product range gamma/ L with plastic liquid ends. The metering monitor can be assembled directly on the dosing head. The metering monitor is supplied complete with a connecting cable.

The metering monitor enables the pulse of the volume flow to be monitored based on the float principle. The partial volume of the feed chemical flowing past the float is adjusted to the stroke volume set on the metering pump by the rotary dial. An alarm is triggered if the capacity falls below the set capacity by approx. 20%.

The maximum permitted number of incompletely performed strokes on the metering pump gamma/ L can be set at between 1 ... 127 on the metering pump to ensure optimum adaptation to the requirements of the process.

<table>
<thead>
<tr>
<th>Flow Control</th>
<th>for pump type</th>
<th>Material design</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size 1</td>
<td>1000, 1601, 1602</td>
<td>PVDF / EPDM</td>
<td>1009229</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PVDF / FPM-B</td>
<td>1009335</td>
</tr>
<tr>
<td>Size 2</td>
<td>1005, 0708, 0413, 0220, 1605, 1008, 0713, 0420, 0232</td>
<td>PVDF / EPDM</td>
<td>1009336</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PVDF / FPM-B</td>
<td>1009338</td>
</tr>
</tbody>
</table>
2 Safety Chapter

2.1 Explanation of the safety information

Introduction

These operating instructions provide information on the technical data and functions of the product. These operating instructions provide detailed safety information and are provided as clear step-by-step instructions.

The safety information and notes are categorised according to the following scheme. A number of different symbols are used to denote different situations. The symbols shown here serve only as examples.

⚠️ DANGER!

Nature and source of the danger
Consequence: Fatal or very serious injuries.

Measure to be taken to avoid this danger
Danger!

– Denotes an immediate threatening danger. If this is disregarded, it will result in fatal or very serious injuries.

⚠️ WARNING!

Nature and source of the danger
Possible consequence: Fatal or very serious injuries.

Measure to be taken to avoid this danger
Warning!

– Denotes a possibly hazardous situation. If this is disregarded, it could result in fatal or very serious injuries.

⚠️ CAUTION!

Nature and source of the danger
Possible consequence: Slight or minor injuries, material damage.

Measure to be taken to avoid this danger
Caution!

– Denotes a possibly hazardous situation. If this is disregarded, it could result in slight or minor injuries. May also be used as a warning about material damage.
NOTICE!

Nature and source of the danger
Damage to the product or its surroundings

Measure to be taken to avoid this danger

Note!

– Denotes a possibly damaging situation. If this is disregarded, the product or an object in its vicinity could be damaged.

Type of information

Hints on use and additional information

Source of the information, additional measures

Information!

– Denotes hints on use and other useful information. It does not indicate a hazardous or damaging situation.
2.2 Users' qualifications

**WARNING!**

**Danger of injury with inadequately qualified personnel!**

The operator of the plant / device is responsible for ensuring that the qualifications are fulfilled.

If inadequately qualified personnel work on the unit or loiter in the hazard zone of the unit, this could result in dangers that could cause serious injuries and material damage.

- All work on the unit should therefore only be conducted by qualified personnel.
- Unqualified personnel should be kept away from the hazard zone.

<table>
<thead>
<tr>
<th>Training</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Instructed personnel</td>
<td>An instructed person is deemed to be a person who has been instructed and, if required, trained in the tasks assigned to him/her and possible dangers that could result from improper behaviour, as well as having been instructed in the required protective equipment and protective measures.</td>
</tr>
<tr>
<td>Trained user</td>
<td>A trained user is a person who fulfils the requirements made of an instructed person and who has also received additional training specific to the system from ProMinent or another authorised distribution partner.</td>
</tr>
<tr>
<td>Trained qualified person</td>
<td>A qualified employee is deemed to be a person who is able to assess the tasks assigned to him and recognize possible hazards based on his/her training, knowledge and experience, as well as knowledge of pertinent regulations. The assessment of a person's technical training can also be based on several years of work in the relevant field.</td>
</tr>
</tbody>
</table>
### Training

<table>
<thead>
<tr>
<th><strong>Definition</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrician</td>
</tr>
</tbody>
</table>

| Customer Service department | Customer Service department refers to service technicians, who have received proven training and have been authorised by ProMinent to work on the system. |

---

**Note for the system operator**

*The pertinent accident prevention regulations, as well as all other generally acknowledged safety regulations, must be adhered to!*
2.3 General Safety Information

**WARNING!**
Danger from hazardous substances!
Possible consequence: Fatal or very serious injuries.

Please ensure when handling hazardous substances that you have read the latest safety data sheets provided by the manufacture of the hazardous substance. The actions required are described in the safety data sheet. Check the safety data sheet regularly and replace, if necessary, as the hazard potential of a substance can be re-evaluated at any time based on new findings.

The system operator is responsible for ensuring that these safety data sheets are available and that they are kept up to date, as well as for producing an associated hazard assessment for the workstations affected.

**WARNING!**
Unauthorized access!
Possible consequence: Fatal or very serious injuries.

- Measure: Ensure that there can be no unauthorized access to the unit

**WARNING!**
Operating faults!
Possible consequence: Fatal or very serious injuries.

- Ensure that the unit is only operated by adequately qualified and technically expert personnel
- Please also observe the operating instructions for any other units, such as the metering pump etc.
- The operator is responsible for ensuring that personnel are qualified

**WARNING!**
When metering aggressive media, take into consideration the resistance of the materials used – refer to the ProMinent® Resistance List in the latest product catalogue or at www.prominent.com.

**NOTICE!**
Life phases of the unit
You have a duty to observe the information contained in the operating instructions at the different phases of the system’s service life.
2.4 Intended Use

NOTICE!

Intended use
The Flow Control is solely designed for reporting back to a metering pump of the product range gamma/ L the pulses of the volume flow in the liquid feed chemical from it. If there are no acknowledgement pulses, the Flow Control thereby indicates that no medium is being metered, e.g. possibly due to a blocked suction or discharge line on the metering pump, empty dosing tank or air in the liquid end etc.

Only use the unit in accordance with the technical data and specifications provided in these operating instructions and in the operating instructions for the individual components.

All other uses or modifications are prohibited.

NOTICE!

Without adapter
The Flow Control can only be screwed directly (without adapter) onto plastic liquid ends.

Rupturing of the discharge line
The Flow Control cannot display a rupture of the discharge line on the metering pump.
3 Storage and Transport

Permissible storage temperature: -10 °C ... +50 °C.

Air humidity: < 98 % relative air humidity, non-condensing.
Overview of Equipment and Functional Description

4 Overview of Equipment and Functional Description

Fig. 1: Overview of equipment

1. Counter-magnet
2. Reed switch
3. Float
4. Control valve (rotary dial)

The Metering Monitor "Flow Control" essentially consists of a tube with a float (3) and a bypass with an adjustable cross-section. The "Flow Control" can be adjusted to the stroke volume of the metering pump using the adjustable control valve (rotary dial), thereby adjusting its response sensitivity.

If the capacity of the metering pump drops by approx. 20%, the metering pump stops after a settable number of incorrect pulses and switches to Fault mode.

There is always a flow with this design of metering monitor, as the float only narrows the bypass, rather than the hole.
5 Installation

5.1 Installation, Hydraulic

- **User qualification, mechanical installation:** trained qualified personnel, see "Chapter 2.2 ‘Users’ qualifications’ on page 7"
- **User qualification, electrical installation:** Electrical technician, see "Chapter 2.2 ‘Users’ qualifications’ on page 7"

---

**Fixing**

With pump types 0413, 0220, 0420, 0713 and 0232, if a hose is used on the discharge side, fix the hose close to the liquid end or fix the Flow Control.

*Otherwise strong vibrations can occur, which can damage the liquid end.*

---

**Multifunctional valve**

If a multifunctional valve is screwed to the Flow Control, fix the Flow Control with a hose clamp, see Figure Fig. 2

*Otherwise strong vibrations can occur, which can damage the liquid end.*

---

**Operating status**

Never allow the Flow Control's maximum permissible operating pressure (16 bar) to be exceeded in any operating status of the system.

*Only operate the Flow Control vertically.*

---

**Using a foot valve**

Install a foot valve on the suction side of the metering pump. Deposits in the Flow Control can block the float.
Installation

Fig. 2: Hose clamp on the Flow Control

1. Multifunctional valve
2. Hose clamp
3. Flow Control

Wetted materials:
- Housing: PVDF
- Float: PTFE coating
- Seals: FPM-B or EPDM, depending on the order number.

5.2 Installation, Electrical

Insert the plug of the metering monitor cable into the pump's "Metering monitor" socket.

⇒ The [Flow] identifier now appears at the bottom left of the pump's LCD display. If not, then switch from [OFF] to [ON] in the [FLOW] menu and set the number of permitted defective strokes. The [FLOW] menu can only be accessed if the plug is inserted into the "Metering monitor" socket.
6 Start Up

User qualification for diagnosis: trained user, see Chapter 2.2 ‘Users’ qualifications’ on page 7.

Recalibration

Recalibrate the pump if you need to after installation if the pump was calibrated before the Flow Control was installed.

Not a shut-off device

Never use the Flow Control as a shut-off device. The rotary dial cannot be used to block the hole for the float.

Turning the rotary dial under pressure can temporarily cause leakage, therefore refer to the latest material safety data sheet for your feed chemical.

Error

Press the P key to acknowledge if the metering pump goes into "Error" mode during start up.

Priming

1. Press both error keys at the same time on the metering pump.

2. For faster bleeding, turn the rotary dial 1x in both directions while filling the Flow Control.
Dynamic adjustment

Minimum values

Take into account the minimum values for the stroke length and the maximum viscosity for the feed chemical.

Stroke lengths, minimum values

<table>
<thead>
<tr>
<th>Pump type gamma/ L</th>
<th>Mean operating pressure</th>
<th>Stroke length (scale divisions)</th>
<th>Maximum permissible operating pressure</th>
<th>Stroke length (scale divisions)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000</td>
<td>5 bar</td>
<td>&gt; 50 %</td>
<td>10 bar</td>
<td>&gt; 60 %</td>
</tr>
<tr>
<td>1601</td>
<td>8 bar</td>
<td>&gt; 30 %</td>
<td>16 bar</td>
<td>&gt; 40 %</td>
</tr>
<tr>
<td>1602</td>
<td>8 bar</td>
<td>&gt; 30 %</td>
<td>16 bar</td>
<td>&gt; 40 %</td>
</tr>
<tr>
<td>1005</td>
<td>5 bar</td>
<td>&gt; 30 %</td>
<td>10 bar</td>
<td>&gt; 50 %</td>
</tr>
<tr>
<td>708</td>
<td>4 bar</td>
<td>&gt; 30 %</td>
<td>7 bar</td>
<td>&gt; 40 %</td>
</tr>
<tr>
<td>1605</td>
<td>8 bar</td>
<td>&gt; 30 %</td>
<td>16 bar</td>
<td>&gt; 50 %</td>
</tr>
<tr>
<td>1008</td>
<td>5 bar</td>
<td>&gt; 30 %</td>
<td>10 bar</td>
<td>&gt; 40 %</td>
</tr>
<tr>
<td>0413, 0713,</td>
<td>-</td>
<td>&gt; 30 %</td>
<td>-</td>
<td>&gt; 30 %</td>
</tr>
<tr>
<td>0220, 0420,</td>
<td>-</td>
<td>&gt; 30 %</td>
<td>-</td>
<td>&gt; 30 %</td>
</tr>
<tr>
<td>232</td>
<td>-</td>
<td>&gt; 30 %</td>
<td>-</td>
<td>&gt; 30 %</td>
</tr>
</tbody>
</table>

Max. viscosity (for dynamic operation):

<table>
<thead>
<tr>
<th>Flow Control</th>
<th>with pump types gamma/ L</th>
<th>Max. viscosity (at 180 strokes/min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size 1</td>
<td>1000, 1601</td>
<td>50 mPa s</td>
</tr>
<tr>
<td></td>
<td>1602</td>
<td>100 mPa s</td>
</tr>
<tr>
<td>Size 2</td>
<td>All</td>
<td>150 mPa s</td>
</tr>
</tbody>
</table>
With a higher viscosity, either work with a:

- Low stroke rate or
- Static metering monitor, see "Adjustment" - "b. static"; only with gamma/ L with identity code characteristic "Metering monitor": 1 (have the metering pump reprogrammed if you need to).

---

### "Flow" identifier

The "Flow" identifier disappears when the reed switch is closed, that is when the float is in its uppermost position.

---

1. Disconnect the metering monitor cable to temporarily disable the metering monitor.
2. Turn the rotary dial fully to the left ("-"")
3. Enter the required operating pressure on the discharge line, max. 16 bar.
4. Use the frequency and stroke to set the required capacity on the running metering pump.
5. Reconnect the metering monitor cable.
   ⇒ The "Flow" identifier on the metering pump's LCD display goes out with each pressure surge.
6. Slowly turn the rotary dial on the metering monitor to the right ("+") until the "Flow" identifier stops flashing.
7. Turn the rotary dial back a little until the "Flow" identifier starts flashing again.
8. Now reduce the metering pump's stroke length by approximately 20% (scale divisions) (record old value) – the "Flow" identifier should stop flashing. If not, slowly turn the rotary dial on the metering monitor to the right ("+") again until the "Flow" identifier stops flashing.
9. Re-adjust the stroke length to the old value.
   ⇒ The "Flow" identifier should flash again.
Static adjustment

**Identity code characteristic "Metering monitor = 1"**

This is only possible with product range gamma/ L with identity code characteristic "Metering monitor = 1" and only from the viscosity named in 'Max. viscosity (for dynamic operation):' on page 16 onwards.

1. Disconnect the metering monitor cable to temporarily disable the metering monitor.
2. Turn the rotary dial fully to the left ("-")
3. Enter the required operating pressure on the discharge line, max. 16 bar.
4. Use the frequency and stroke to set the required capacity on the metering pump.
5. Reconnect the metering monitor cable.
   - The "Flow" identifier on the LCD display of the metering pump goes out.
6. Slowly turn the rotary dial on the metering monitor to the right ("+") until the "Flow" identifier appears.
7. Turn the rotary dial back a little until the "Flow" identifier disappears again.
8. Now reduce the metering pump's stroke length by approximately 20% (scale divisions) (record old value) – the "Flow" identifier should appear. If not, slowly turn the rotary dial on the metering monitor to the right ("+"), again until the "Flow" identifier appears.
9. Re-adjust the stroke length to the old value.
   - The "Flow" identifier should disappear again.
7 Maintenance

User qualification: instructed user, see Chapter 2.2 ‘Users’ qualifications’ on page 7

Maintenance interval

Check that the metering monitor is working correctly every 3 months. Shorter maintenance intervals are recommended with a heavier workload.

Checking the setting

Dynamic operation

1. Reduce the metering pump's stroke length if the stroke length has fallen by approx. 20% (scale divisions) – the "Flow" identifier should stop flashing. If not, search for the cause and readjust the Flow Control if you need to.

2. Re-adjust the stroke length to the required value.

⇒ The "Flow" identifier should start flashing again.

Static operation

3. Reduce the stroke length on the metering pump if the stroke length has fallen by approx. 20% (scale divisions) – the "Flow" identifier should appear. If not, search for the cause and readjust the Flow Control if you need to.

4. Re-adjust the stroke length to the required value.

⇒ The "Flow" identifier should disappear again.
8 Repair

- User qualification: instructed user, see Chapter 2.2 ‘Users’ qualifications’ on page 7

**WARNING!**

Danger from hazardous substances!
Possible consequence: Fatal or very serious injuries.

Please ensure when handling hazardous substances that you have read the latest safety data sheets provided by the manufacture of the hazardous substance. The actions required are described in the safety data sheet. Check the safety data sheet regularly and replace, if necessary, as the hazard potential of a substance can be re-evaluated at any time based on new findings.

The system operator is responsible for ensuring that these safety data sheets are available and that they are kept up to date, as well as for producing an associated hazard assessment for the workstations affected.

---

*Wet contacts*

Avoid the plug contacts becoming wet. Dry the contacts before attaching them.
Fig. 3: Reed switch

1. Counter-magnet
2. Reed switch
3. Float
4. Control valve (adjustment knob)

Reed switch

The reed switch has to be fixed in the lower position with size 1, and in the upper position with size 2, see Fig. 3.
Cleaning the inside of the Flow Control

Fig. 4: Exploded drawing of the Flow Control

Cleaning

Clean the inside of the Flow Control if it is blocked or sticking, see exploded drawing Fig. 4.

1. Unscrew the top of the dismantled Flow Control.
2. Remove the counter-magnet and O-ring from the hole for the float.
3. Remove the float.
4. Clean everything with a suitable cleaning agent and tool.
5. Check in which direction the float and counter-magnet repel each other.
6. Allow the float to slide into the hole.
7. Use tweezers to insert the O-ring into the hole for the float.
8. Adjust the counter-magnet so that the counter-magnet repels the float.
9. Screw the Flow Control tightly closed.
9 Troubleshooting

User qualification: instructed user, see Chapter 2.2 'Users' qualifications' on page 7

WARNING!

Danger from hazardous substances!
Possible consequence: Fatal or very serious injuries.

Please ensure when handling hazardous substances that you have read the latest safety data sheets provided by the manufacture of the hazardous substance. The actions required are described in the safety data sheet. Check the safety data sheet regularly and replace, if necessary, as the hazard potential of a substance can be re-evaluated at any time based on new findings.

The system operator is responsible for ensuring that these safety data sheets are available and that they are kept up to date, as well as for producing an associated hazard assessment for the workstations affected.

Adjust the system until it is at atmospheric pressure

Make sure that the system is at atmospheric pressure before working on the Flow Control or metering pump.
### Troubleshooting

**Fault**

Press the P key to return the metering pump to operating status after one of the following faults.

<table>
<thead>
<tr>
<th>Fault</th>
<th>Cause</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>The metering pump stops during priming (red LED display lights up, &quot;Error&quot; identifier appears and &quot;FLOW&quot; flashes)</td>
<td>The Flow Control has not emitted any acknowledgement pulses due to air in the liquid end</td>
<td>During priming, remove the metering monitor cable - the &quot;Flow&quot; function is disabled during this time.</td>
</tr>
<tr>
<td>The metering pump stops when the Flow Control is being adjusted (red LED display lights up, &quot;Error&quot; identifier appears and &quot;FLOW&quot; flashes)</td>
<td>The Flow Control has emitted too few acknowledgement pulses in succession</td>
<td>Press the P key.</td>
</tr>
</tbody>
</table>
| The metering pump stops during operation (red LED display lights up, "Error" identifier appears and "FLOW" flashes)       | There is gas in the liquid end - gaseous feed chemical                                       | - Disconnect the metering monitor cable from the metering pump  
- Bleed the liquid end     
- Insert the metering monitor cable into the socket on the metering pump  
- Increase the number of acknowledgement pulses (see FLOW menu). |
| There is air in the liquid end – the dosing tank is empty             |                                                                                             | - Fill the dosing tank  
- Disconnect the metering monitor cable from the metering pump  
- Bleed the liquid end  
- Insert the metering monitor cable into the socket on the metering pump. |
<table>
<thead>
<tr>
<th>Fault</th>
<th>Cause</th>
<th>Remedy</th>
</tr>
</thead>
</table>
| There is gas in the dosing head – leakage between the dosing tank and the Flow Control | - Repair the leak  
- Disconnect the metering monitor cable from the metering pump  
- Bleed the liquid end  
- Insert the metering monitor cable into the socket on the metering pump. |                                                                                             |
| Blockage between the Flow Control and dosing tank | - Clear the blockage  
- Disconnect the metering monitor cable from the metering pump  
- Bleed the liquid end  
- Insert the metering monitor cable into the socket on the metering pump. |                                                                                             |
| The stroke adjustment dial is incorrectly adjusted | Refer to "Start Up" - "Adjustment"                                      |                                                                                             |
| The feed chemical viscosity is too high    | Clean the Flow Control, see "Repair"                                   |                                                                                             |
| The float is sticking                      |                                                                        |                                                                                             |
Disposal of Used Parts

10 Disposal of Used Parts

- **User qualification**: instructed user, see
  - Chapter 2.2 ‘Users’ qualifications’
  - on page 7

**NOTICE!**

**Regulations governing the disposal of used parts**

- Note the current national regulations and legal standards which apply in your country

The manufacturer will take back decontaminated used units providing they are covered by adequate postage.

Decontaminate the unit before returning it for repair. To do so, remove all traces of hazardous substances. Refer to the Material Safety Data Sheet for your feed chemical.

A current Declaration of Decontamination is available to download on the ProMinent website.
11 Technical data

Max. back pressure: 16 bar.

Fig. 5: Pressure curve 16 bar

I. Operating pressure
II. Operating temperature
III. Pressure curve

Max. viscosity (for dynamic operation):

<table>
<thead>
<tr>
<th>Flow Control</th>
<th>with pump types gamma/ L</th>
<th>Max. viscosity (at 180 strokes/min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size 1</td>
<td>1000, 1601</td>
<td>50 mPa s</td>
</tr>
<tr>
<td></td>
<td>1602</td>
<td>100 mPa s</td>
</tr>
<tr>
<td>Size 2</td>
<td>All</td>
<td>150 mPa s</td>
</tr>
</tbody>
</table>
With a higher viscosity, either work with a:

- Low stroke rate or
- Static metering monitor, see "Adjustment" - "b. static"; only with gamma/L with identity code characteristic "Metering monitor": 1 (have the metering pump reprogrammed if you need to).

## Technical data

<table>
<thead>
<tr>
<th>Body</th>
<th>Float</th>
<th>O-rings</th>
</tr>
</thead>
<tbody>
<tr>
<td>PVDF</td>
<td>PTFE coating</td>
<td>EPDM (with order no. 1009229, 1009336)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>FPM-B (with order no. 1009335, 1009338)</td>
</tr>
</tbody>
</table>

Weight: approx. 200 g.

Electrical data of the reed switch:

- Max. switching power: 10 W
- Max. switching voltage: 200 V DC
- Max. switching current: 0.5 A

Temperature data:

- Storage temperature: -10 °C to +50 °C
- Ambient temperature: -10 °C to +45 °C
- Medium temperature (at max. operating pressure): -10 °C to +35 °C
- Protection against contact and humidity: IP 65 (in accordance with DIN 60529 and IEC 60529, corresponding to VDE 0470 Part 1)
11.1 Dimensional drawing

![Dimensional drawing of a flow control device](A2193)

*Fig. 6: Dimensions*
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- Dynamic operation .................................... 19

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## L
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