



Mass flow controller (MFC)/mass flow meter (MFM) for liquids

- Flow measurement/flow control up to 120 kg/h
- Very high accuracy and measuring range
- High long-term stability, no zero-point adjustment necessary
- Highly resistant wetted materials
- Suitable for numerous liquids



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

Can be combined with

	Type ME63 Industrial Ethernet gateway, IP65/IP67/IP69k	▶
	Type ME43 Fieldbus gateway	▶
	Type 2871 Direct-acting 2-way standard proportional valve	▶
	Type 2873 Direct-acting 2-way standard proportional valve	▶

Type description

The mass flow controller (MFC) / mass flow meter (MFM) Type 8756 is particularly suitable for the very precise measurement or control of small quantities of liquid that also require a medium-separated sensor. The measurement principle of the sensor is based on the Coriolis effect and is completely independent of the medium. Pressure and temperature deviations have no impact on the measuring accuracy. In addition to the flow rate, the density and temperature of the liquid are measured. The device design enables a stable flow measurement that is robust to external impacts and does not require a zero-point adjustment when the process conditions change. All wetted materials are highly resistant and allow use for a wide range of liquids, whether aggressive or neutral media. Type 8756 is available in the variants MFM, MFC with an interface for a modular actuator, MFC with integrated proportional valve and MFC with integrated micro annular gear pump. The high-precision pump is self-priming and the space in contact with the medium is sealed hermetically. It offers a very large control range and generates extremely low pulsations. This variant is used as a control or dosing system for liquids which have to be conveyed from an unpressurised container.

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1. General technical data

Product properties		
Dimensions	Further information can be found in chapter “4. Dimensions” on page 8.	
Material^{1.)}		
Housing	Aluminium	
Base block (wetted)	Stainless steel 1.4404/316L (optionally with certificate 3.1 according to EN 10204), additionally alloy C22 for size 1	
Sensor (wetted)	Stainless steel 1.4404/316L, additionally Alloy C22 for size 1	
Actuator (wetted)	Further information can be found in the table section “Actuator” (see below).	
Seal (wetted)	FFKM, metal or PCTFE	
Cleaning/Sterilisation (MFM variant only) ^{2.)}	With seal material metal or PCTFE: hot water (≤ + 90 °C) With seal material FFKM: hot water (≤ + 90 °C) and steam (≤ + 121 °C)	
Configuration management	Further information can be found in chapter “8.4. Configuration management for easy device replacement” on page 31.	
Weight		
Total weight of MFM	> 3 kg	
Total weight ofMFC	≤ 6 kg	
LED display ^{3.)}	RGB LED according to NAMUR NE107	
Performance data	Size 1 ^{4.)}	Size 2 ^{4.)}
Nominal flow rate (Q_N)^{4.)}		
MFM	25 kg/h ^{5.)} (Q _N ≥ 1 kg/h)	120 kg/h ^{5.)} (Q _N ≥ 5 kg/h)
MFC with modular actuator interface	25 kg/h ^{5.)} (Q _N ≥ 1 kg/h)	120 kg/h ^{5.)} (Q _N ≥ 5 kg/h)
MFC with proportional valve Type 2873	25 kg/h ^{5.)} (Q _N ≥ 4 kg/h)	–
MFC with micro-annular gear pump	8 kg/h ^{5.)} (higher Q _N on request, Q _N ≥ 2 kg/h)	–
Minimum measurable flow rate	0.05 kg/h ^{5.)} (can be reduced to a minimum of 0.01 kg/h with loss of accuracy)	0.25 kg/h ^{5.)} (can be reduced to a minimum of 0.05 kg/h with loss of accuracy)
Flow rate characteristics		
Measuring accuracy	± 0.2 % MV or ± 1.4 g/h for water (under calibration conditions and after 1 min warm-up time to achieve the best measuring conditions)	± 0.1 % MV or ± 15 g/h for water
Repeatability	± 0.1 % MV or ± 0.7 g/h	± 0.05 % MV or ± 7.5 g/h
Density^{6.)}		
Measuring accuracy	± 0.005 kg/l at Q _N > 1.5 kg/h	± 0.005 kg/l at Q _N > 5.7 kg/h
Repeatability	± 0.0025 kg/l at Q _N > 1.5 kg/h	± 0.0025 kg/l at Q _N > 5.7 kg/h
Temperature		
Measuring accuracy	± 1.0 K at Q _N > 1.5 kg/h	± 1.0 K at Q _N > 5.7 kg/h
Repeatability	± 0.5 K at Q _N > 1.5 kg/h	± 0.5 K at Q _N > 5.7 kg/h
Tightness to the outside (helium)	< 10 ⁻⁶ mbar * l/s (depending on seal material)	
Actuator		
Micro-annular gear pump (only for size 1)		
Minimum internal displacement volume	48 µl	
Differential pressure of the pump	0...10 bar (inlet pressure must be ≤ 200 mbar to prevent higher pump leakage)	
Wetted materials	Stainless steel 1.4404/316L and 1.4462/318LN, carbide (nickel-based), epoxy resin	
Proportional valve Type 2873 (only for size 1)		
Nominal diameter	0.8 mm	
Pressure range	Inlet pressure ≤ 5 bar	
Wetted materials	Stainless steel 1.4404/316L, 1.4305/303, 1.4310/301, 1.4303/305L and 1.4413/S 41500, FFKM or EPDM	

Further actuators

In the MFM variant, any proportional actuator can be controlled via the additional actuator output using a PWM signal (e.g. proportional valve Type 2871 or Type 2873). The integrated PI controller must be parameterised accordingly before start-up, see [“8.2. Bürkert Communicator software” on page 30](#).

Electrical data

Operating voltage	24 V DC	
Power consumption	MFM: • < 3 W	MFC: • < 19 W (with proportional valve Type 2873) • < 68 W (with pump) • < 3 W + 30 W (with external actuator)
Voltage tolerance	± 10 %	
Residual ripple	± 2 %	

Medium data

Operating medium	Further information can be found in chapter “3.1. Bürkert resistApp” on page 7 .	
Calibration medium	Water	
Medium temperature	MFM: - 10 °C...+ 70 °C MFC: - 10 °C...+ 60 °C	
Viscosity (dynamic)	> 0.3 m·Pas ≤ 200 m·Pas (for variant with micro-annular gear pump) ≤ 40 m·Pas (for variant with proportional valve Type 2873)	

Product connections

Port connection	G 1/8, NPT 1/8, VCR® 1/8, VCR® 1/4, double compression fitting 1/8", 1/4", 4 mm, 6 mm, sub-base, clamp connection
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Electrical connection

büS/CANopen variant	1 x M12 plug, 5-pin
Analogue variant	0...20 mA, 4...20 mA, 0...5 V, 0...10 V 1 x M12 plug, 5-pin, 1 x M12 socket, 5-pin
Industrial Ethernet variant	1 x M12 plug, 5-pin, 2 x M8 sockets, 4-pin

Approvals and conformities

Certificate	Material certificate 3.1 (optional)
Explosion protection	Further information can be found in chapter “2.4. Explosion protection (MFM)” on page 6 .
North America (USA/Canada)	Further information can be found in chapter “2.5. North America (USA/Canada)” on page 6 .
Food and beverage/hygiene	Further information can be found in chapter “2.6. Food and beverage/hygiene” on page 6 .

Environment and installation

Installation position	Any, to prevent the accumulation of gas bubbles in the medium: horizontal upright/horizontal upside down
Storage temperature	- 10 °C...+ 70 °C
Relative air humidity	Max. 95 % at + 55 °C, non-condensing
Degree of protection	IP65 IP40 (as MFC with pump)
Ambient temperature	- 10 °C...+ 50 °C (other temperature ranges on request)

Accessories

Software	Bürkert Communicator Further information can be found in chapter “8.2. Bürkert Communicator software” on page 30 .
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- 1.) The wetted components do not contain any type of silicone.
- 2.) For 30 minutes with unpowered device and subsequent cooling time of 2 hours
- 3.) For a detailed description of LED colours, see [operating instructions for Type 8756](#) ►
- 4.) For highly viscous media this value may not be achieved.
- 5.) Applies to water under calibration conditions
- 6.) Factory settings

2. Approvals and conformities

2.1. General notes

Note:

- 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 approvals or conformities indicated below.

2.2. Conformity

In accordance with the EU 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 (MFM)

Approval	Description
 	Optional: Explosion protection ATEX: EPS 22 ATEX 1 278 X II 3G Ex ec nC IIC T5 Gc II 3D Ex tc IIIC T100 °C Dc IECEx: IECEx EPS 22.0067X Ex ec nC IIC T5 Gc Ex tc IIIC T100 °C Dc

2.5. North America (USA/Canada)

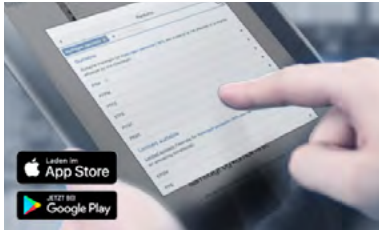
Approval	Description
	Optional: UL listed for the USA and Canada The products are UL listed for the USA and Canada according to: • UL 61010-1 (ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL, AND LABORATORY USE – Part 1: General Requirements) • CAN/CSA-C22.2 No. 61010-1

2.6. Food and beverage/hygiene

Conformity	Description
FDA	FDA – Code of Federal Regulations (valid for variable code PL02, P03) All wetted materials are compliant with the Code of Federal Regulations published by the FDA (Food and Drug Administration, USA) according to the manufacturer's declaration.
USP	United States Pharmacopeial Convention (USP) (valid for variable code PL04) All wetted materials are biocompatible according to the manufacturer's declaration.
	EC Regulation 1935/2004 of the European Parliament and of the Council (valid for variable code PL01, P02) All wetted materials are compliant with EC Regulation 1935/2004/EC according to the manufacturer's declaration.

3. Materials

3.1. Bürkert resistApp



Bürkert resistApp – Chemical Resistance Chart

You want to ensure the reliability and durability of the materials in your individual application case? Verify your combination of media and materials on our website or in our resistApp.

[Start Chemical Resistance Check](#)

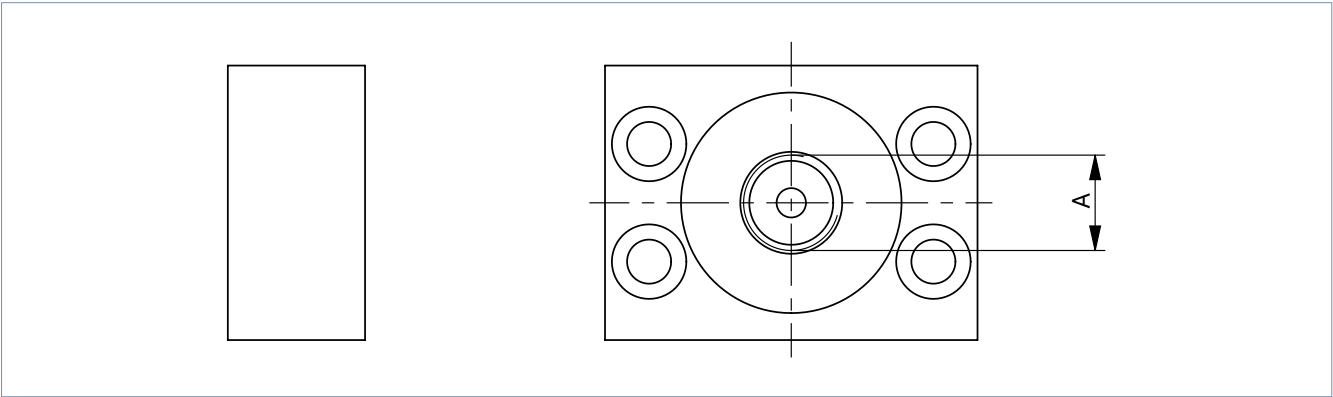
4. Dimensions

4.1. Flange plates

Internal-threaded connection

Note:

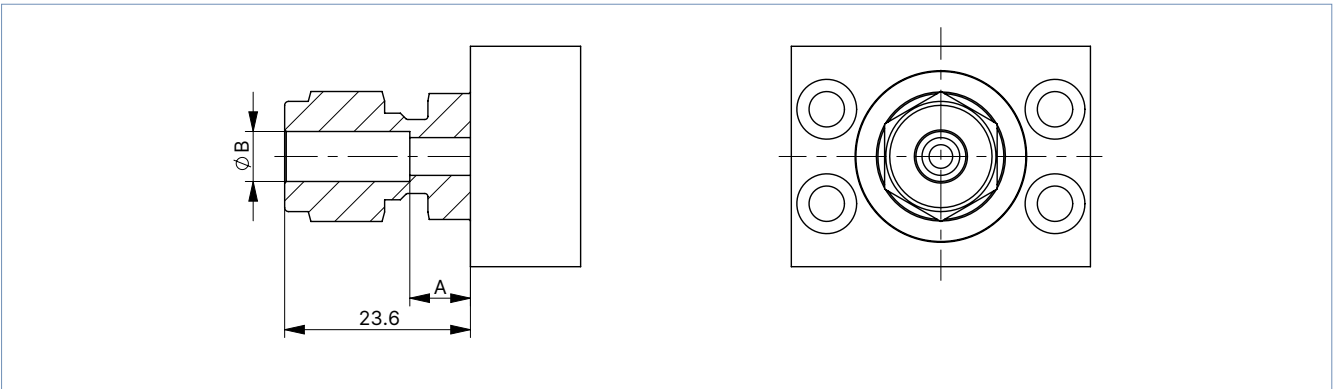
- Dimensions in mm
- A corresponds to G 1/8 and NPT 1/8.



Double compression fitting

Note:

Dimensions in mm



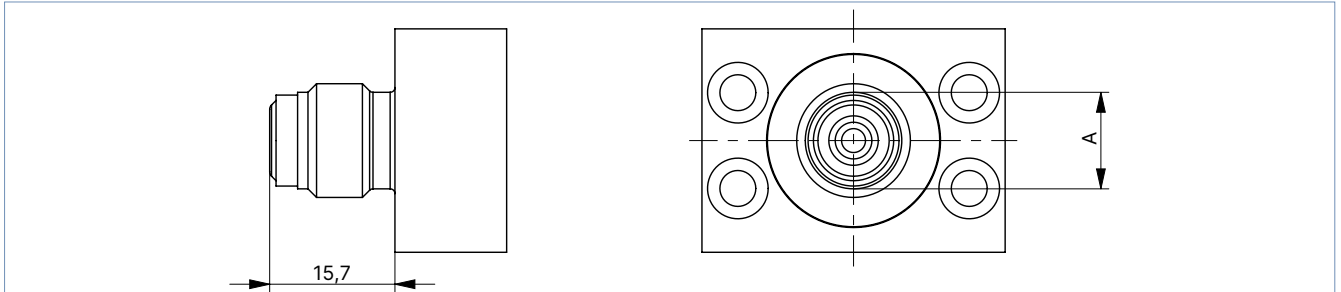
Variant	Size A	Size B
Double compression fitting 4 mm	8.6 mm	4 mm
Double compression fitting 6 mm	7.7 mm	6 mm
Double compression fitting 1/8"	8.6 mm	1/8"
Double compression fitting 1/4"	7.7 mm	1/4"

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Fitting with metal flat seal

Note:

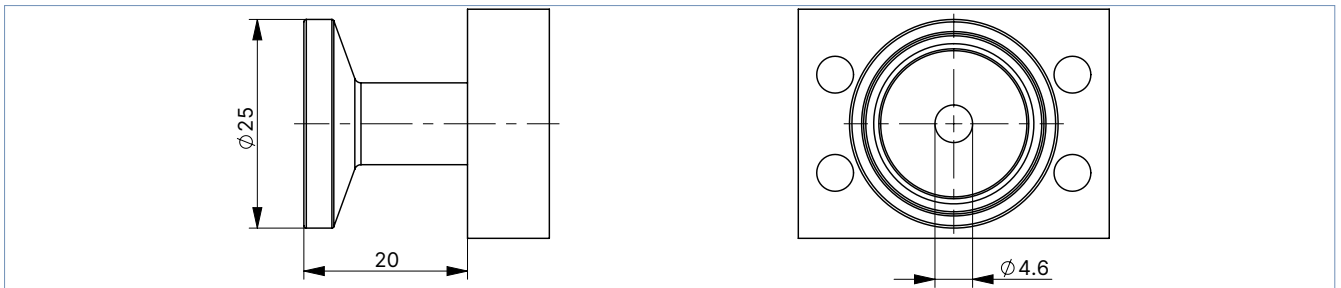
- Dimensions in mm
- A corresponds to G 1/8 and NPT 1/8.



Clamp connection

Note:

Dimensions in mm

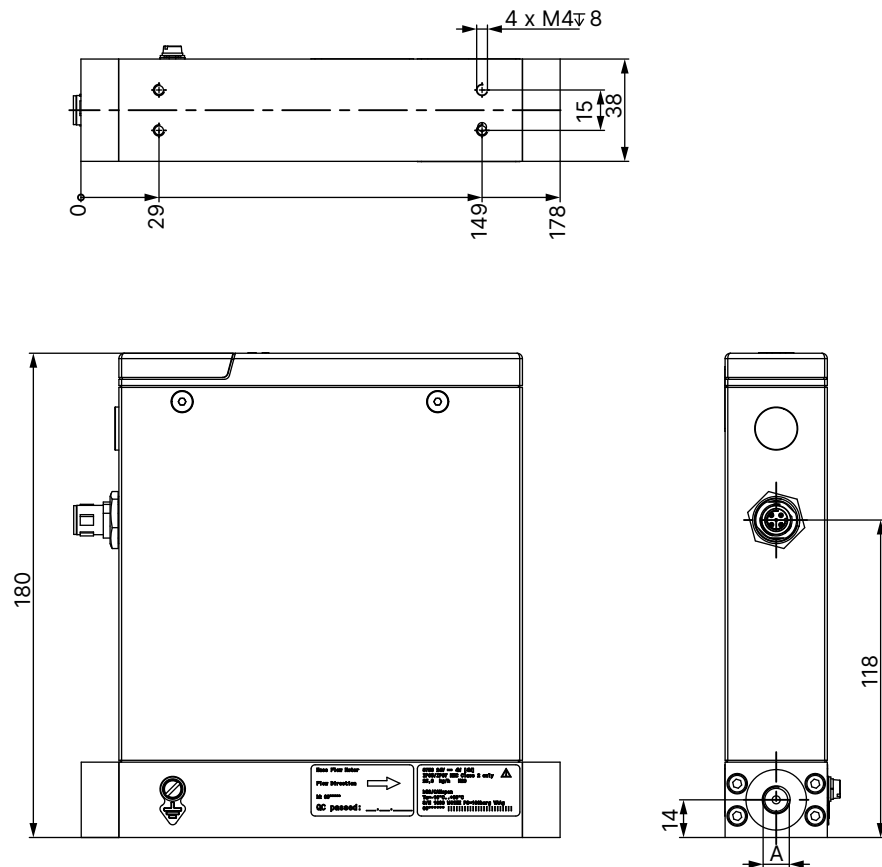


4.2. MFM variant with bÜS/CANopen interface

Size 1

Note:

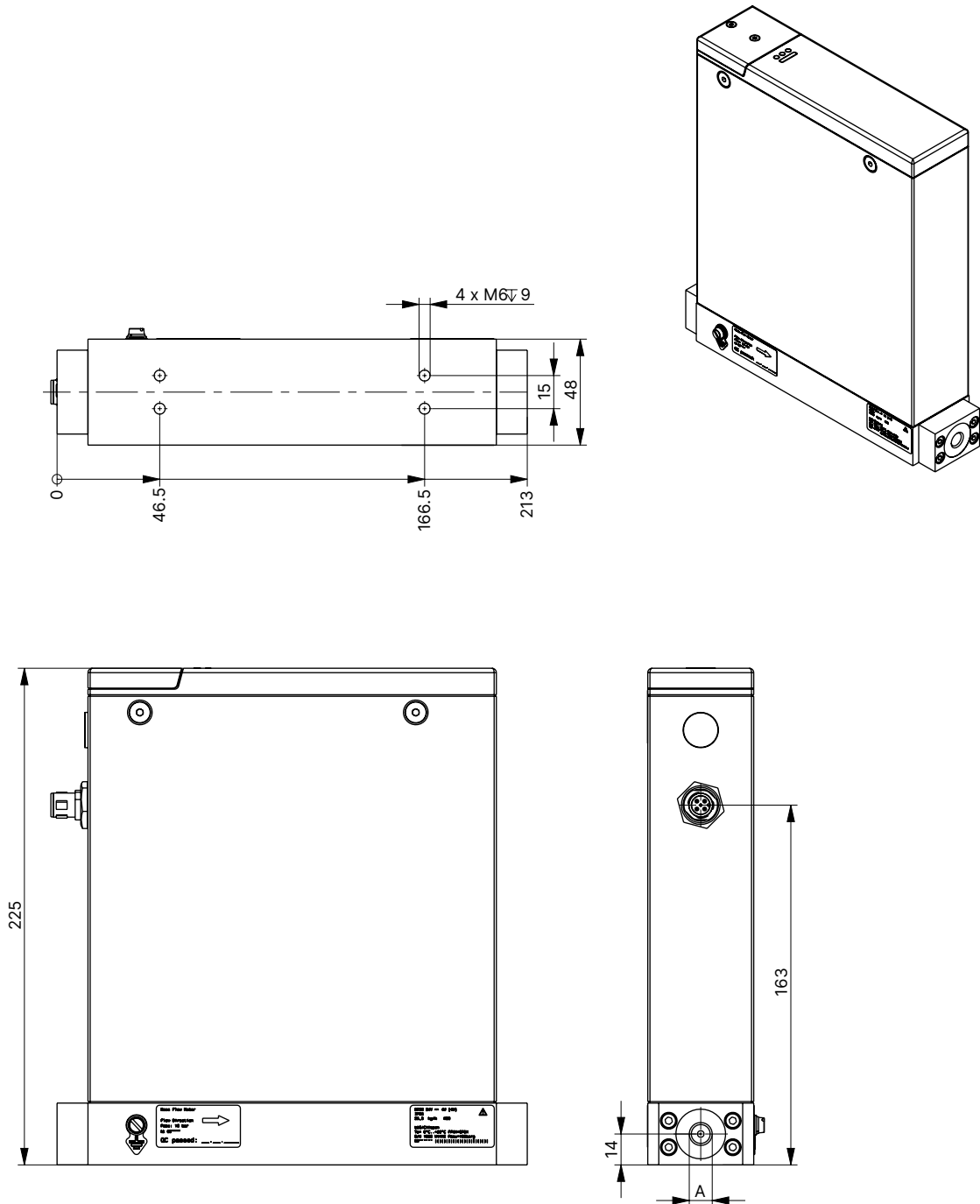
- Dimensions in mm
- Connection shown: G 1/8 (A).



Size 2

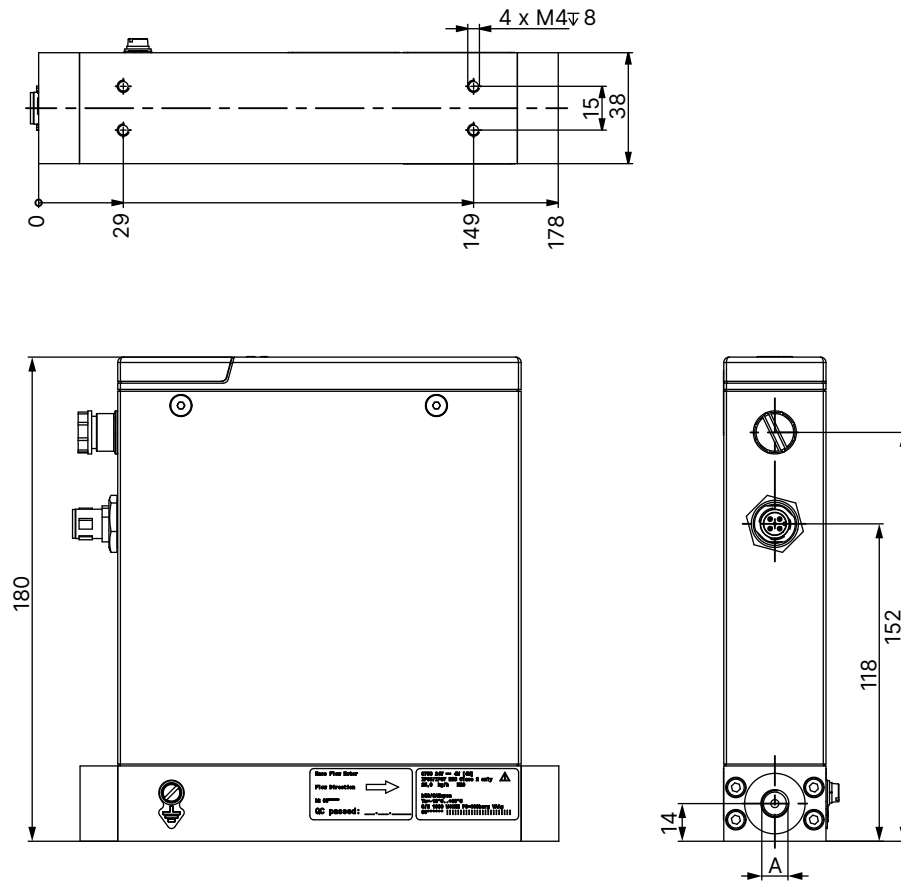
Note:

- Dimensions in mm
- Connection shown: G 1/8 (A).



Size 1

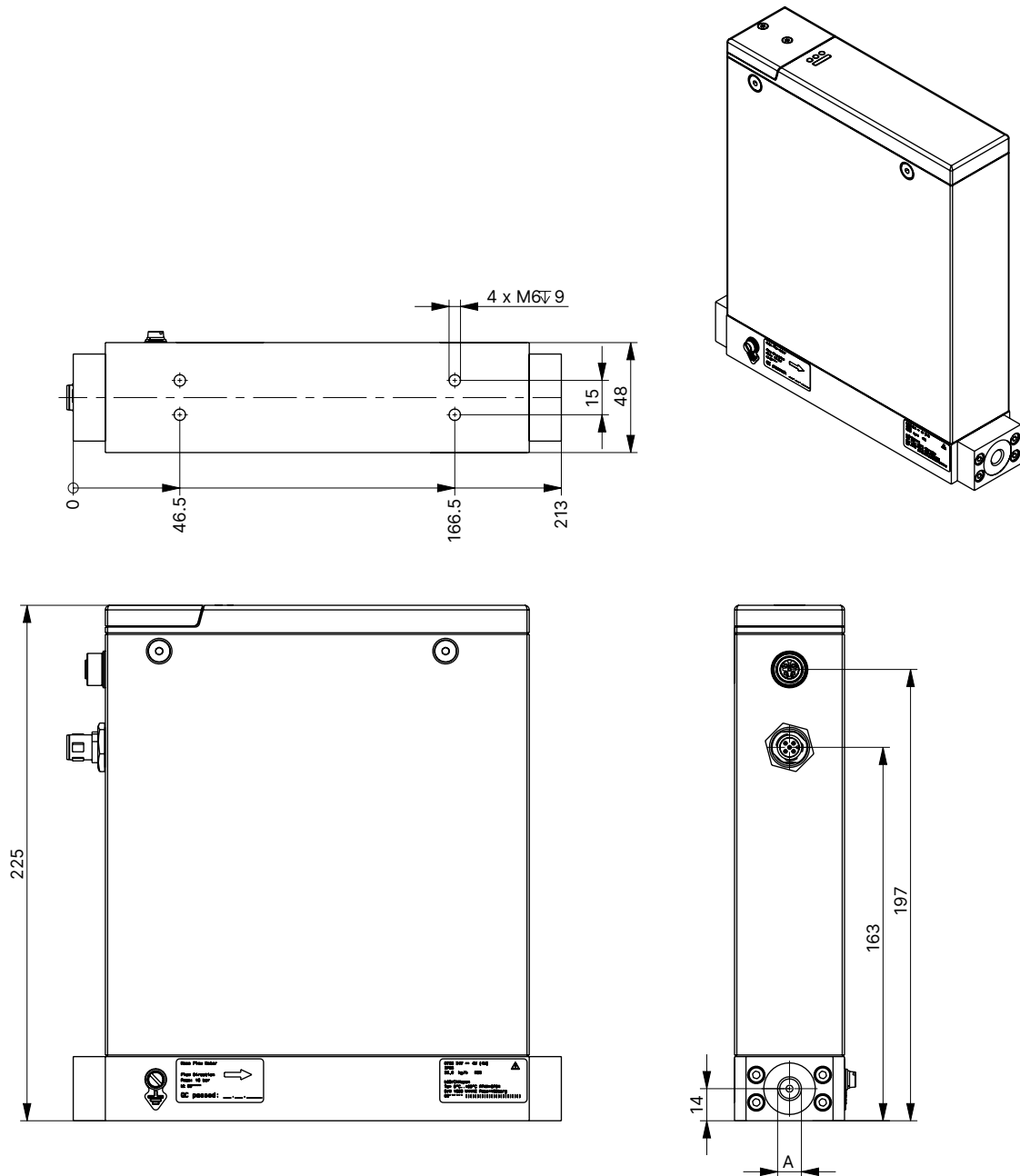
- Dimensions in mm
- Connection shown: G 1/8 (A)



Size 2

Note:

- Dimensions in mm
- Connection shown: G 1/8 (A)

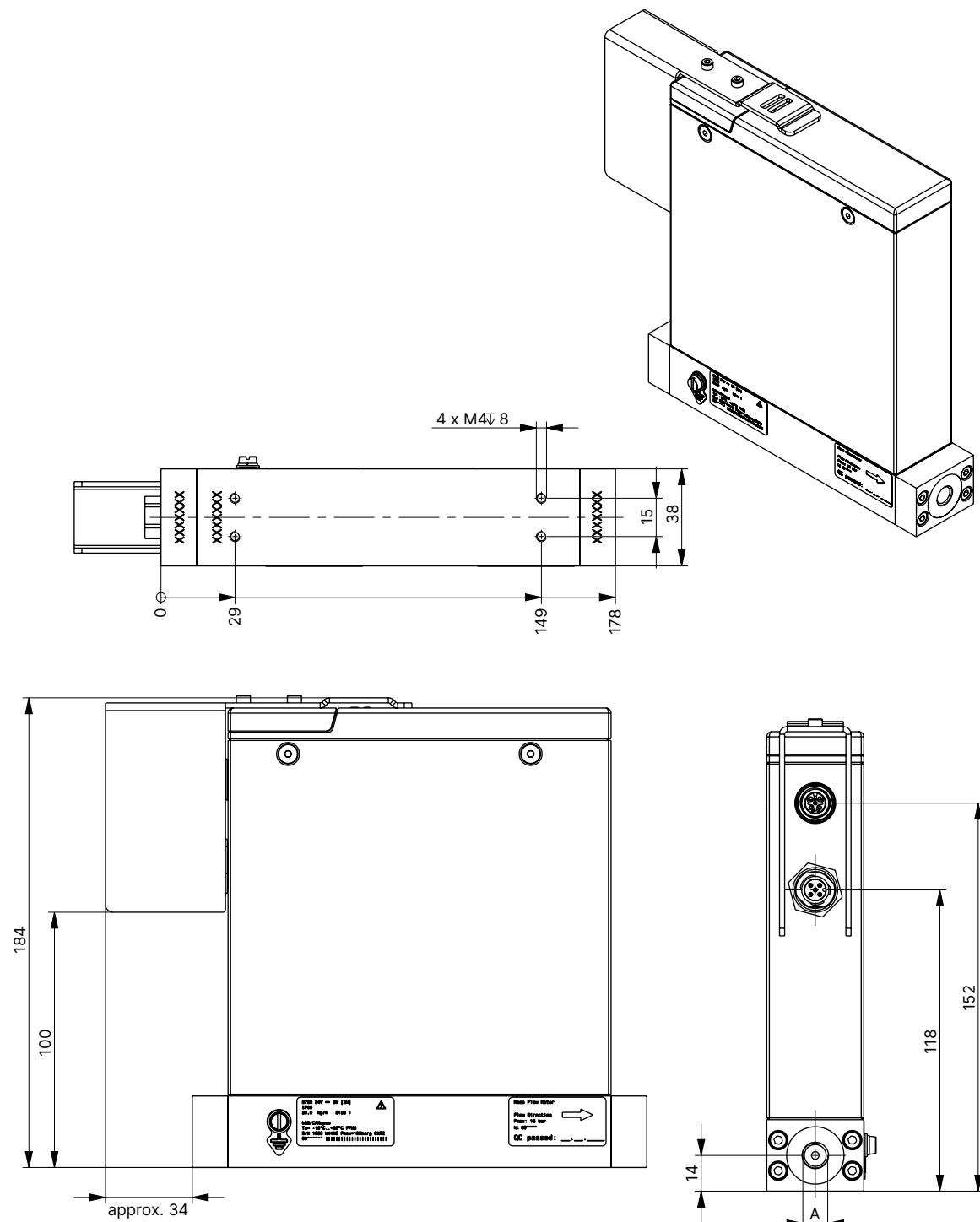


4.4. MFM variant with ATEX conformity

Size 1

Note:

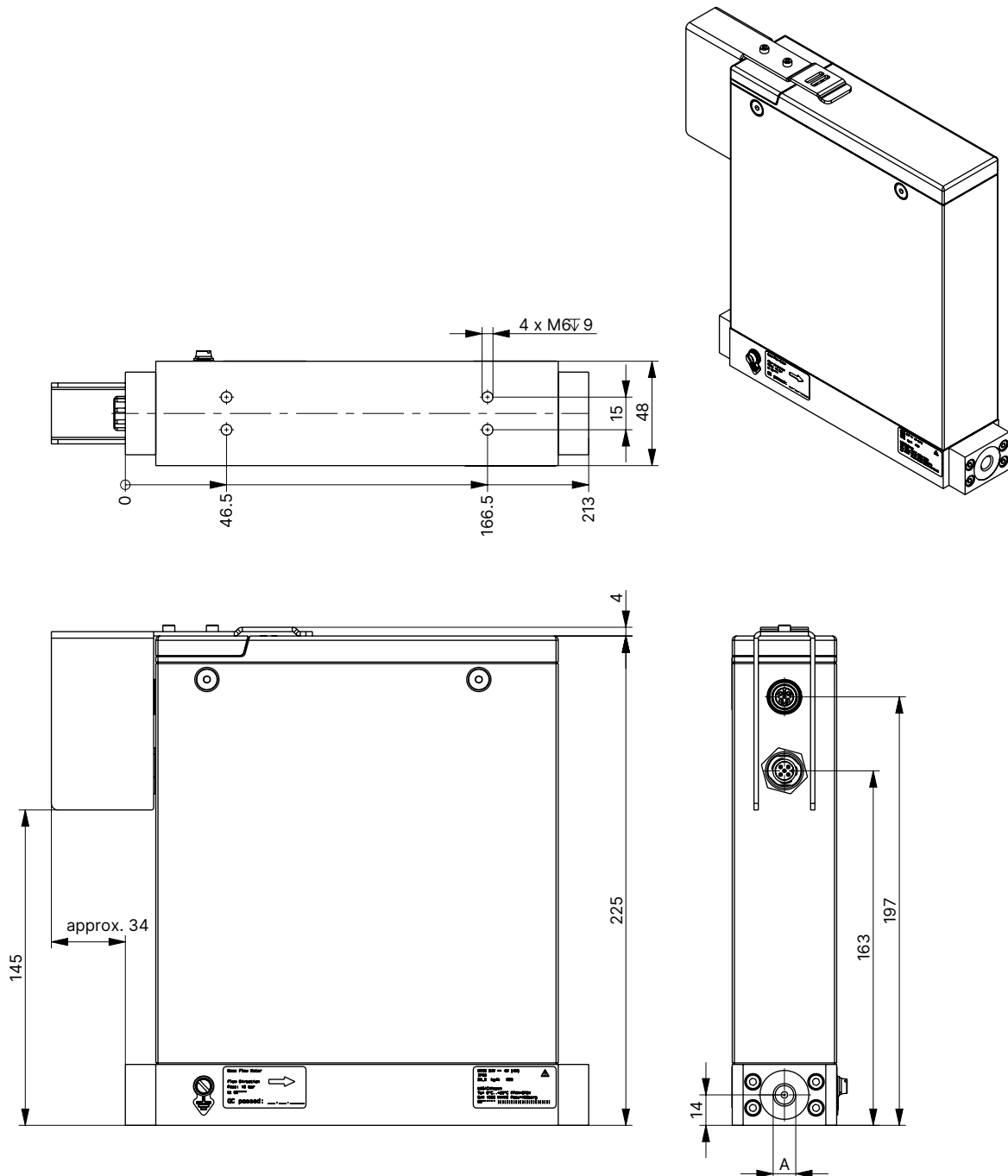
- Dimensions in mm
- Connection shown: G 1/8" (A)



Size 2

Note:

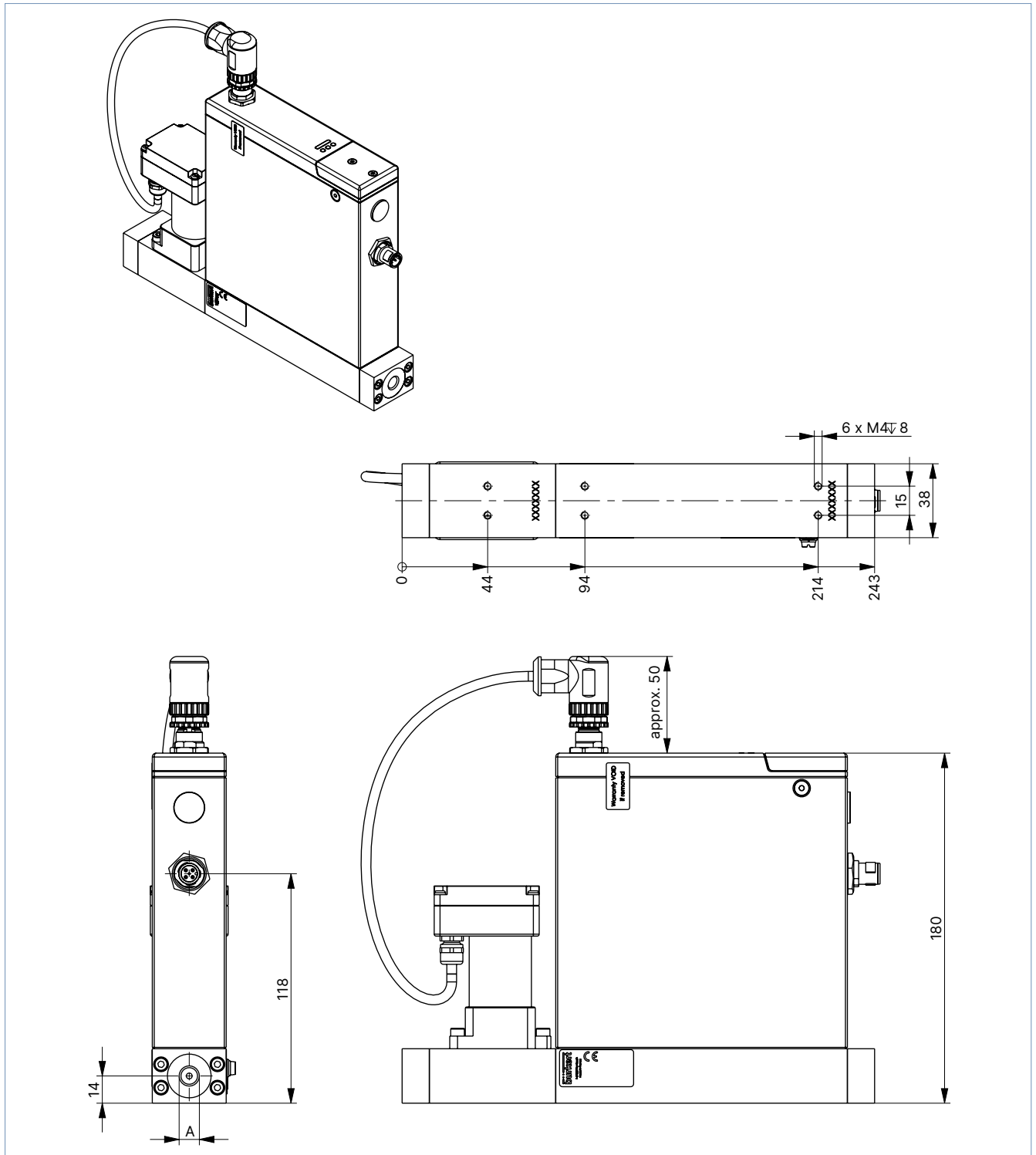
- Dimensions in mm
- Connection shown: G 1/8 (A)



4.5. MFC with micro-annular gear pump (size 1)

Note:

- Dimensions in mm
- Connection shown: G 1/8 (A)

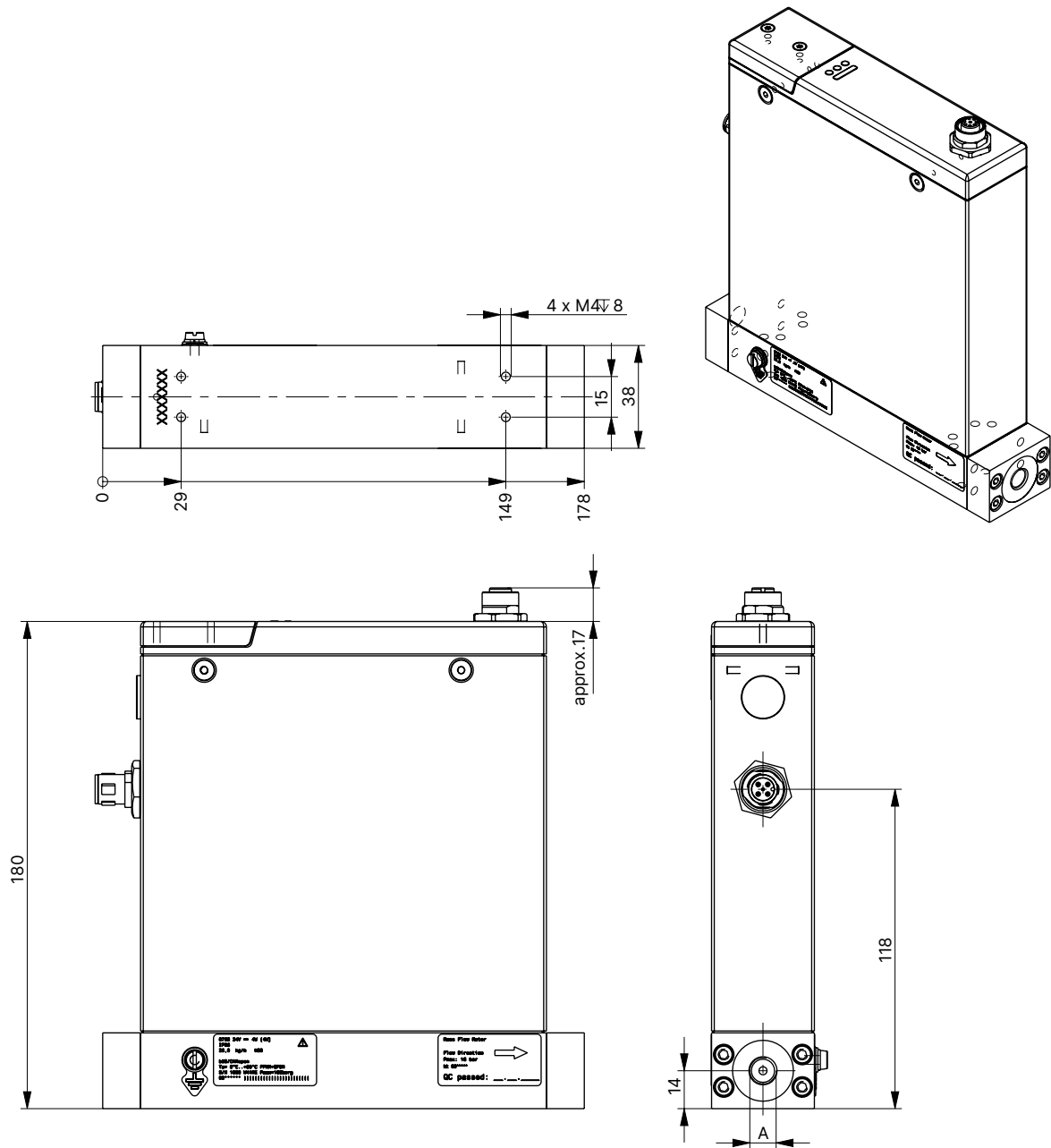


4.6. MFC with modular actuator interface

Size 1

Note:

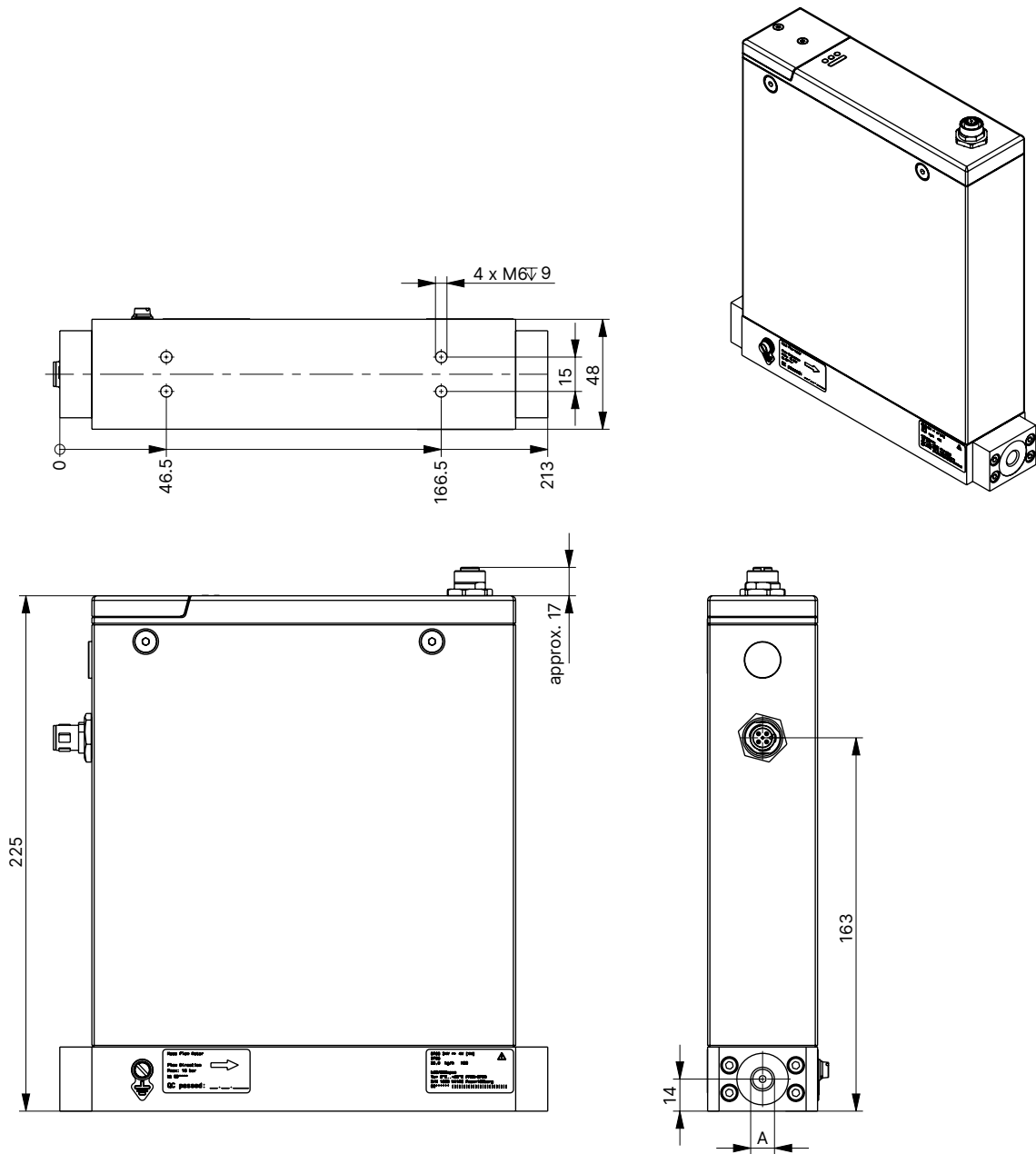
- Dimensions in mm
- Connection shown: G 1/8" (A)



Size 2

Note:

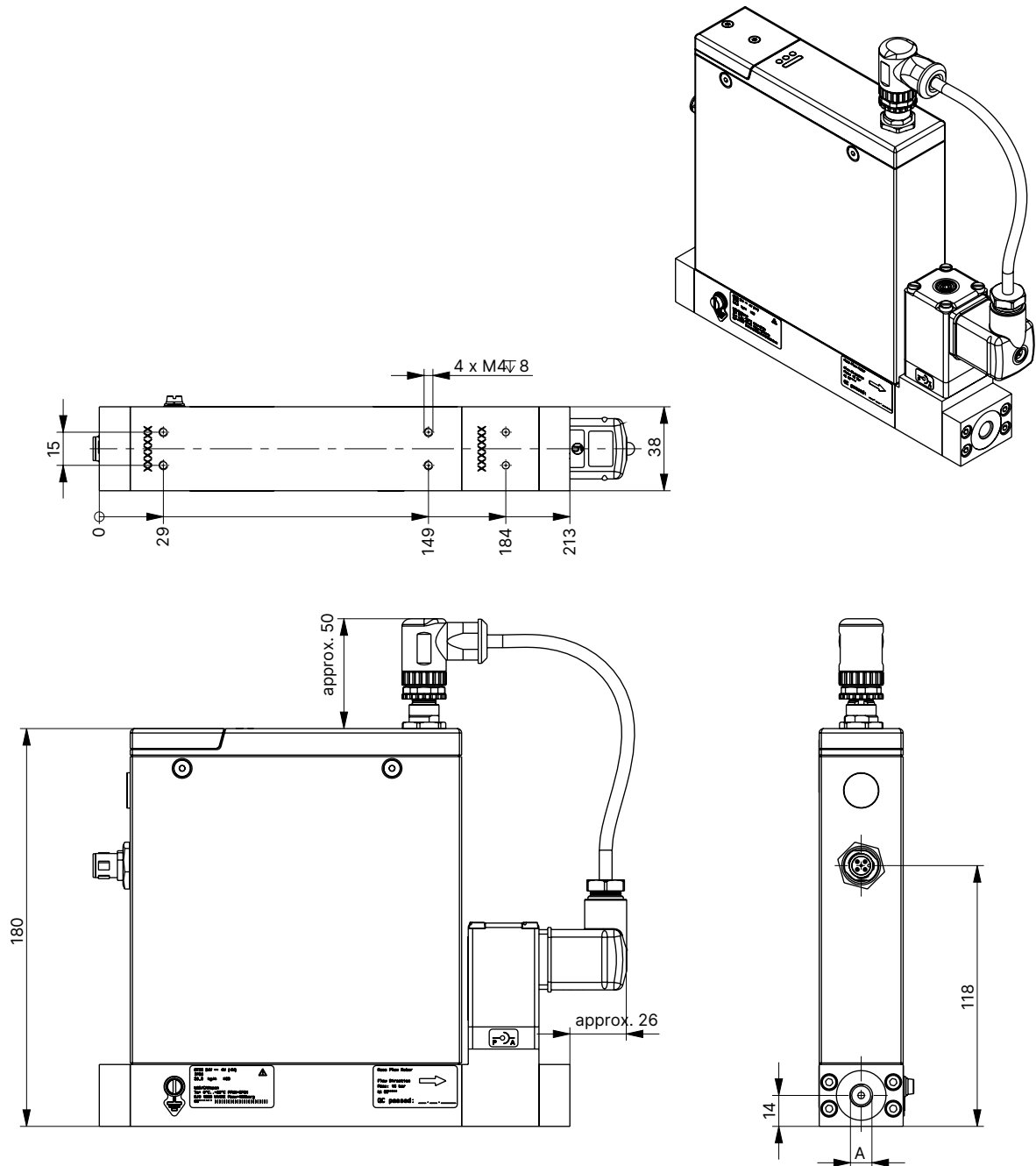
- Dimensions in mm
- Connection shown: G 1/8" (A)



4.7. MFC with integrated proportional valve Type 2873 DN 0.8 (size 1)

Note:

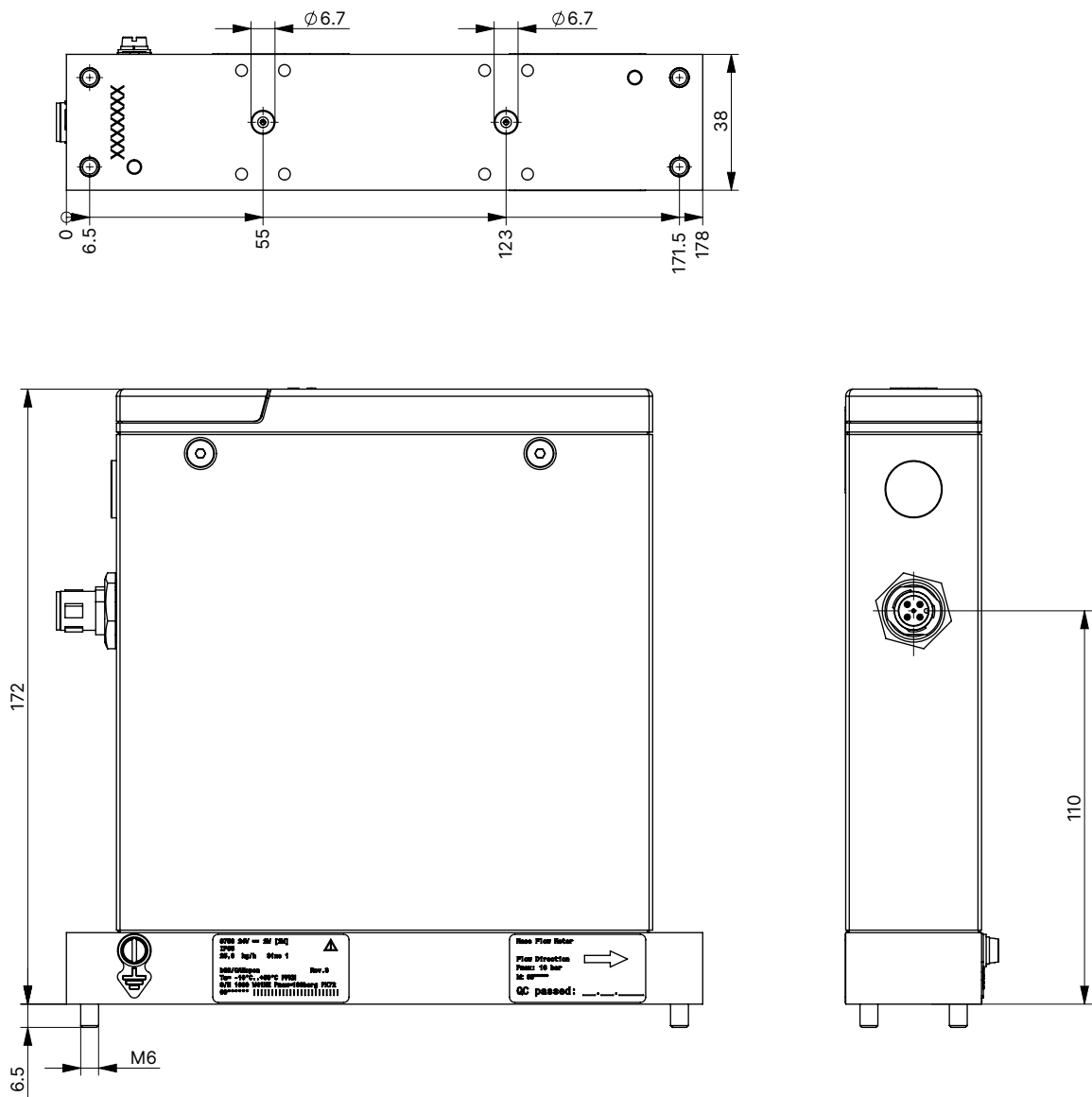
- Dimensions in mm
- Connection shown: G 1/8" (A)



4.8. MFM variant, sub-base

Size 1

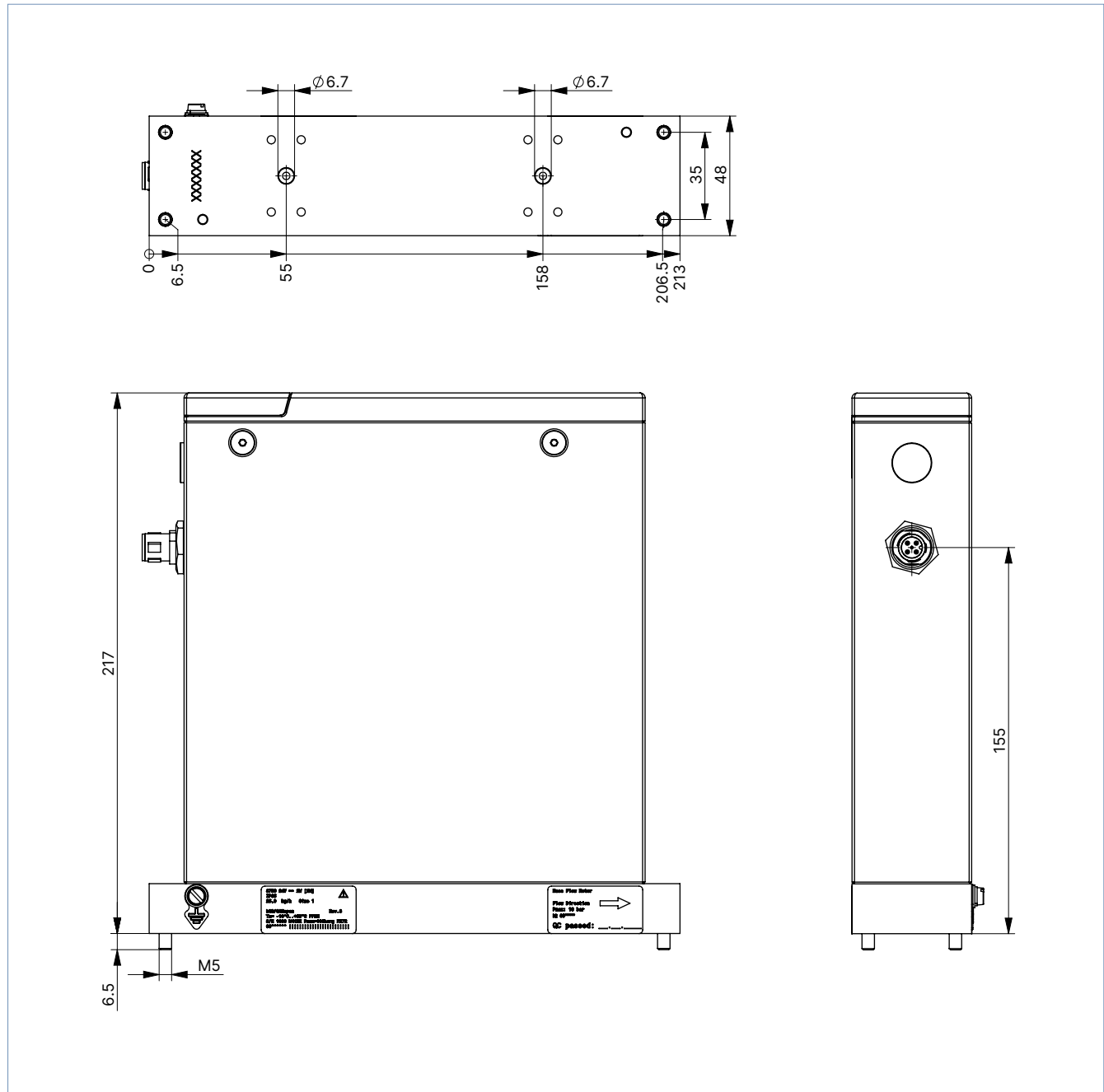
Note:
Dimensions in mm



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Note:

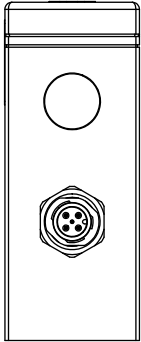
Dimensions in mm



5. Product connections

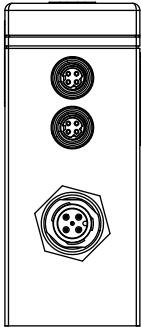
5.1. Communication

büS/CANopen



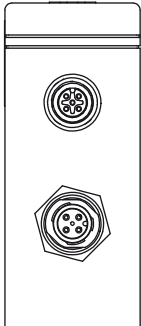
M12 plug, 5-pin (A-coded)	Pin	Assignment
	1	Shielding
	2	24 V
	3	DGND
	4	CAN_H
	5	CAN_L

Industrial Ethernet



2 x M8 sockets, 4-pin (D-coded)	Pin	Assignment
	1	TX +
	2	RX +
	3	TX -
	4	RX -
M12 plug, 5-pin (A-coded)	Pin	Assignment
	1	Shielding
	2	24 V
	3	GND
	4	Not connected
	5	Not connected

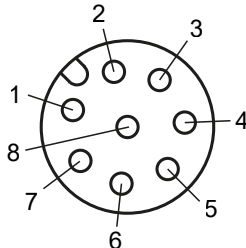
Analogue



M12 socket, 5-pin (A-coded)	Pin	Assignment
	1	Digital input GND
	2	Digital input +
	3	Relay, centre contact
	4	Relay, normally closed contact
	5	Relay, normally open contact
M12 plug, 5-pin (A-coded)	Pin	Assignment
	1	GND for analogue output (for MFM) or GND for analogue output and set-point value input (for MFC)
	2	24 V
	3	GND for supply voltage
	4	Set-point value input (not connected for MFM)
	5	Analogue output for measured value

5.2. MFC with modular actuator interface

Note:
External actuators (e.g. proportional valves) can be connected directly to Type 8756 via the modular actuator interface. This allows a closed control loop with sensor, actuator and integrated PI controller to be implemented in a modular way. Before initial commissioning, the PI controller must be parameterised accordingly. The Bürkert Communicator with its simple commissioning script can be used for this purpose, see [“8.2. Bürkert Communicator software” on page 30](#).

M12 socket, 8-pin (A-coded)	Pin	Assignment
	1	24 V
	2	GND
	3	Not used
	4	Not used
	5	Not used
	6	PWM (open collector)
	7	Do not connect (internal use)
	8	Not used

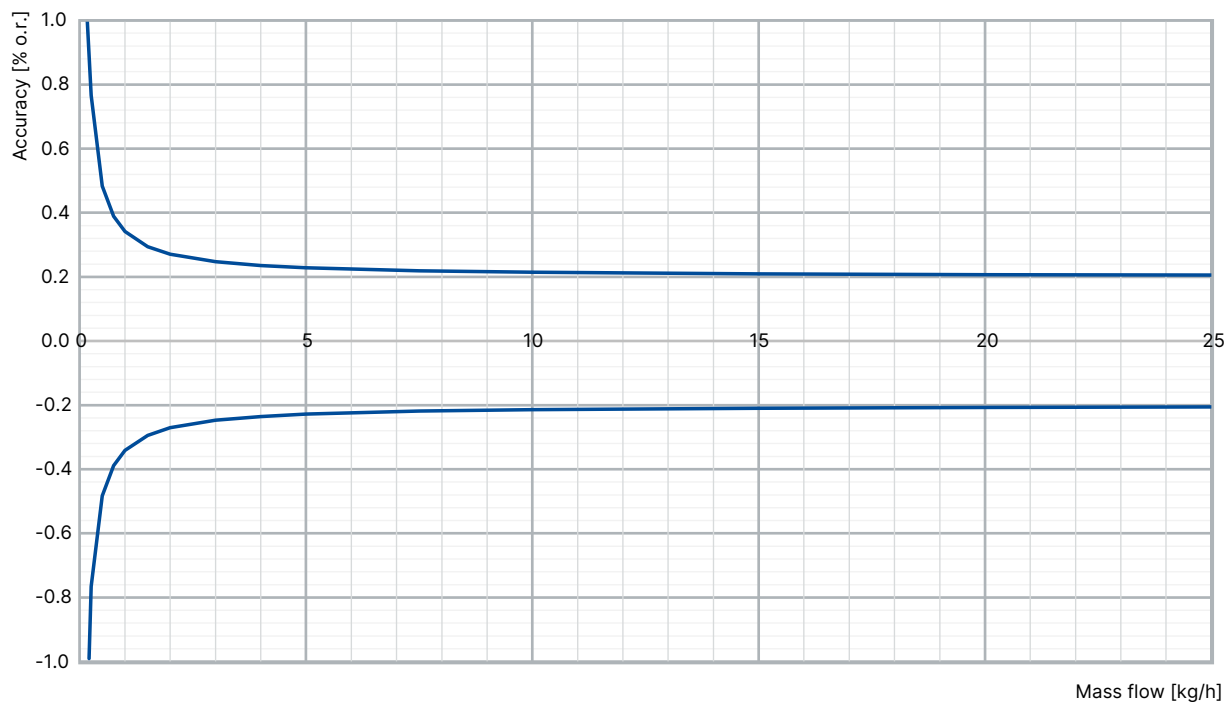
6. Performance specifications

6.1. MFM flow accuracy diagram

Size 1:

The permissible measurement error is $\pm 0.2\% \text{ MV} \pm 1.4 \text{ g/h}$ (zero point applies to water under calibration conditions).

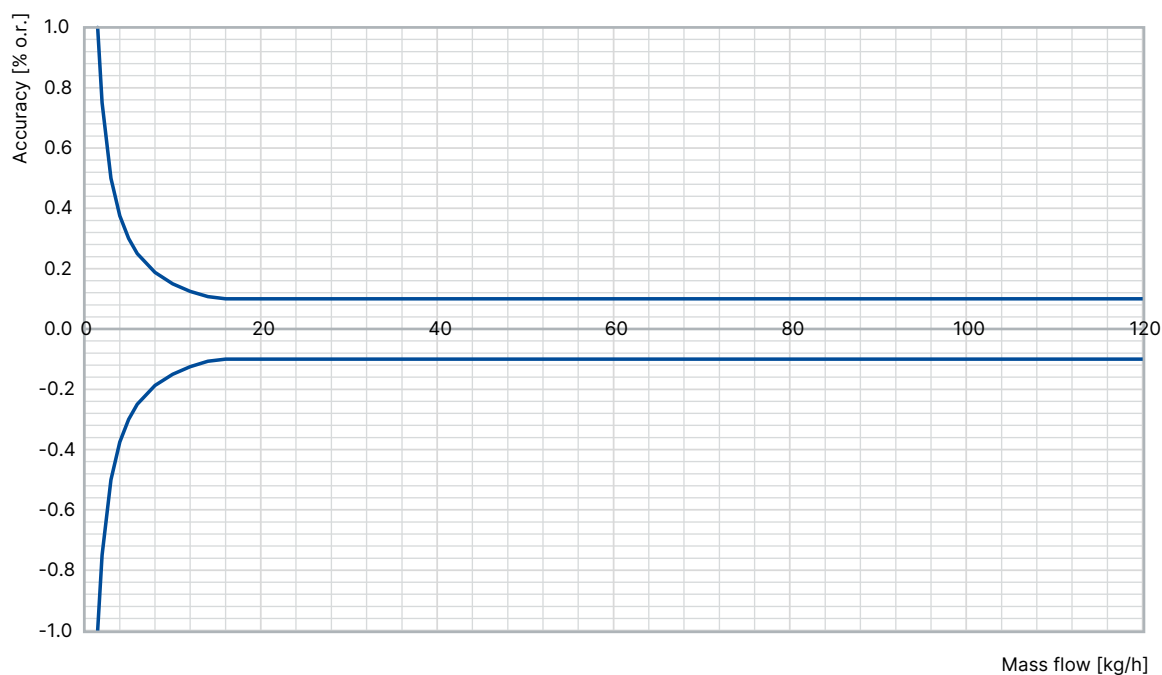
For the permissible error in % MV, this results in:



Size 2:

The permissible measuring error is $\pm 0.1\% \text{ MV} \pm 15 \text{ g/h}$ (zero point applies to water under calibration conditions, for flow rates of $< 15 \text{ kg/h}$ and a different medium, consult your Bürkert partner).

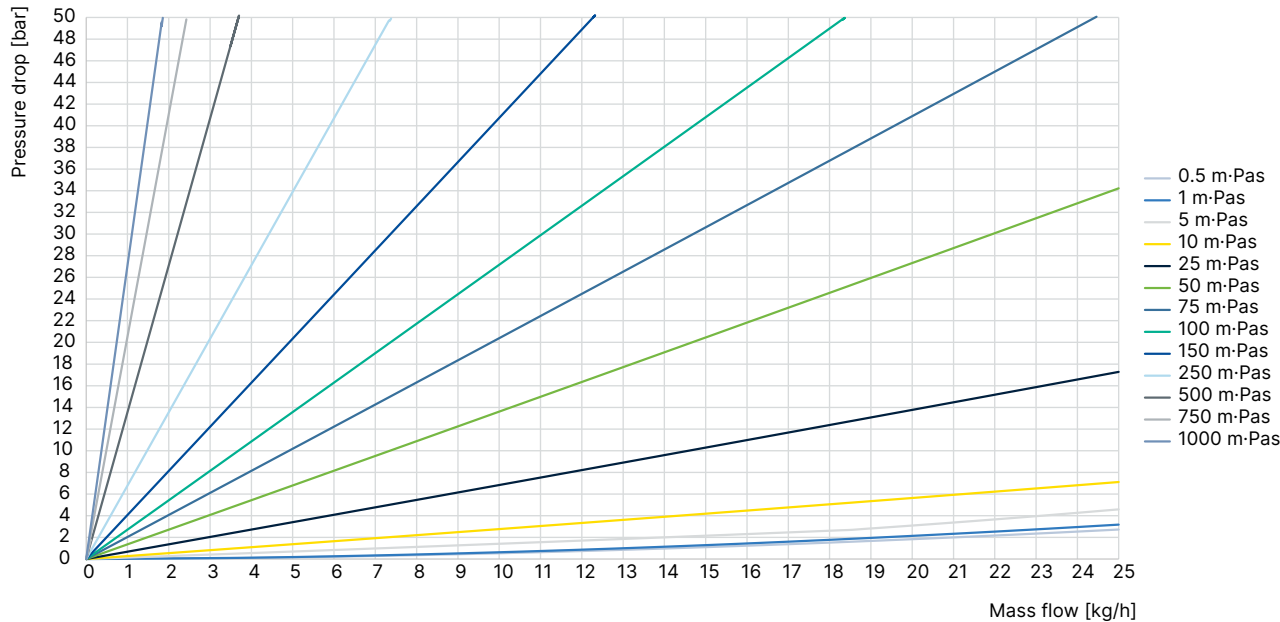
This results in the following proportional measurement error:



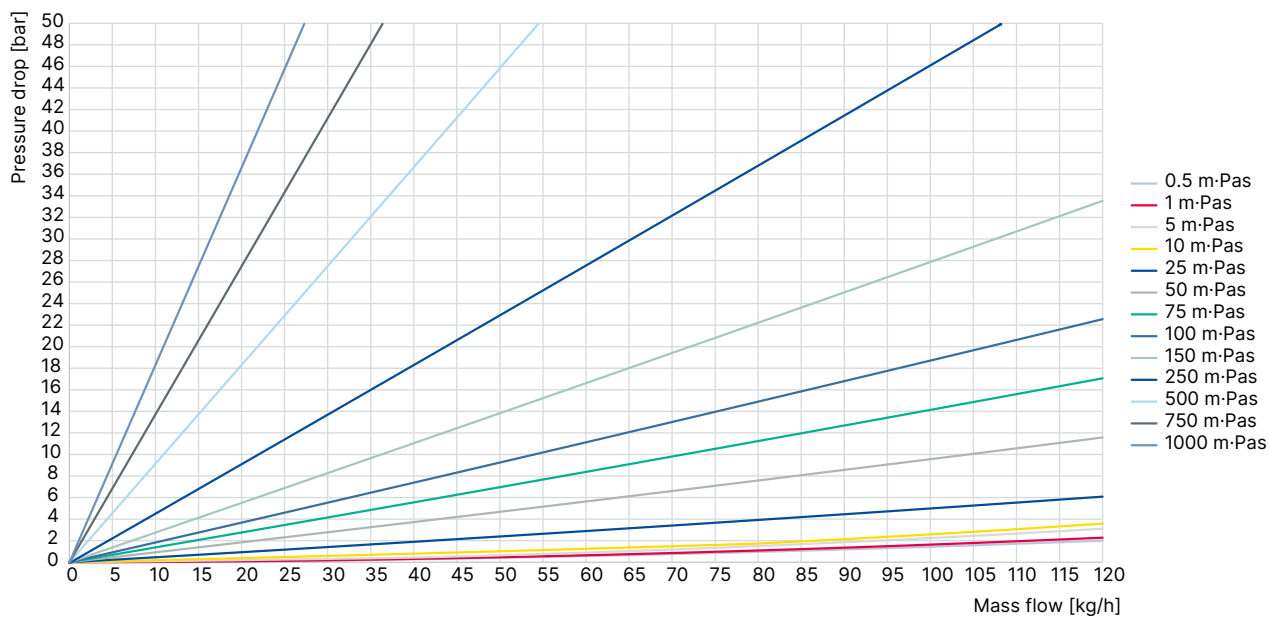
6.2. MFM pressure loss diagram

The diagram shows pressure loss curves across the sensor at different viscosities. As an example for size 1: when 12.5 kg/h water flow through at + 20 °C and 1 m-Pas dynamic viscosity, the pressure loss is approximately 1 bar.

Pressure loss, size 1

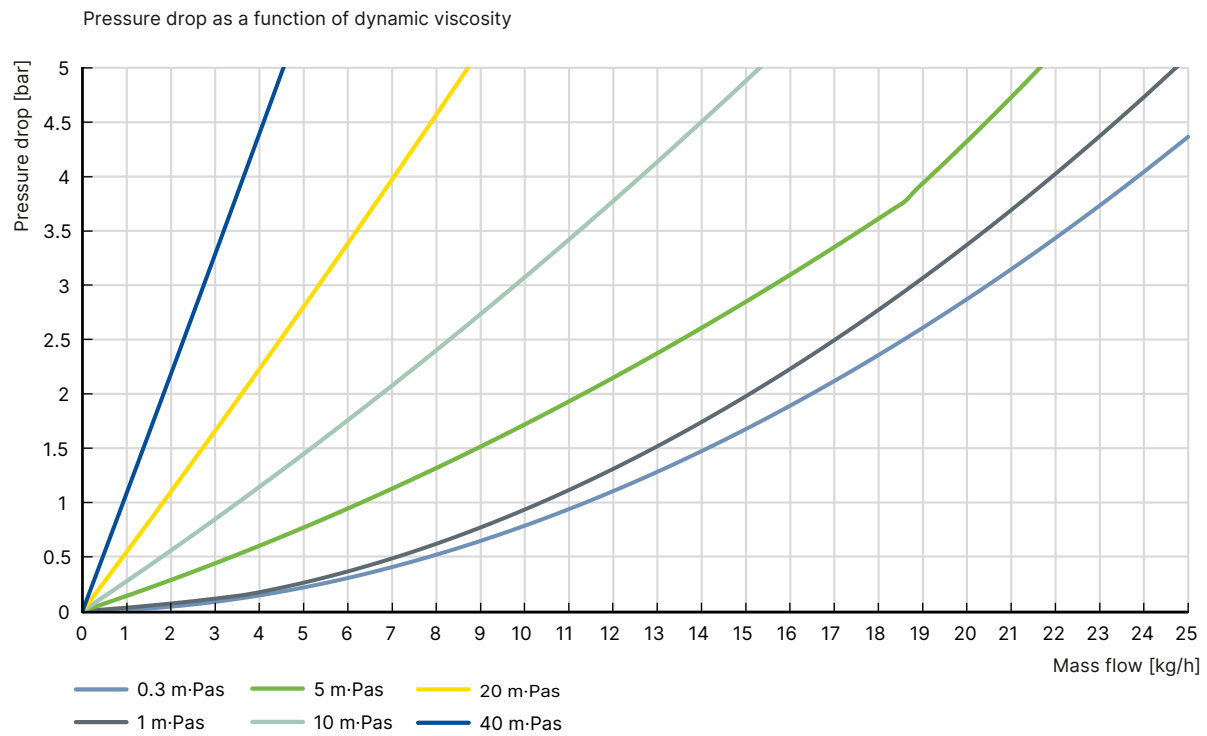


Pressure loss, size 2



6.3. Pressure loss diagram of the MFC with integrated proportional valve

The diagram shows pressure loss curves over the sensor and the proportional valve Type 2873 DN 0.8 at different viscosities.



6.4. MFM turndown ratio diagram

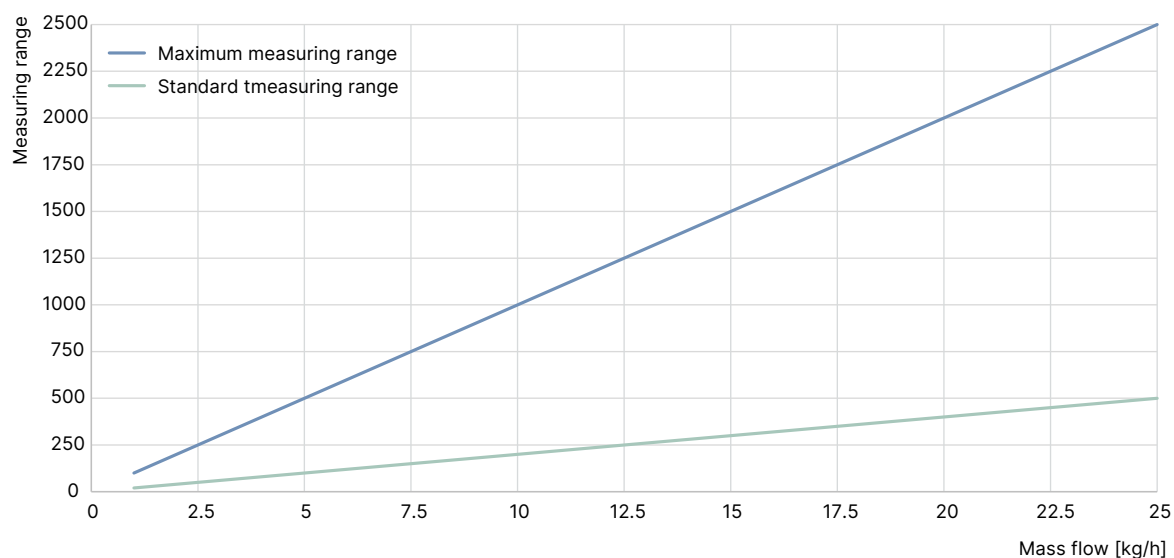
Example for determining the turndown ratio for an MFM with a nominal flow rate of 10 kg/h:

1. Select 10 kg/h in the diagram on the x-axis.
2. The grey characteristic curve applies to the standard measuring range (minimum measurable flow = 0.05 kg/h). Reading the measuring range on the y-axis results in a turndown ratio of 1:200.
3. The blue characteristic curve can be used if the minimum measuring range has been reduced to 0.01 kg/h.

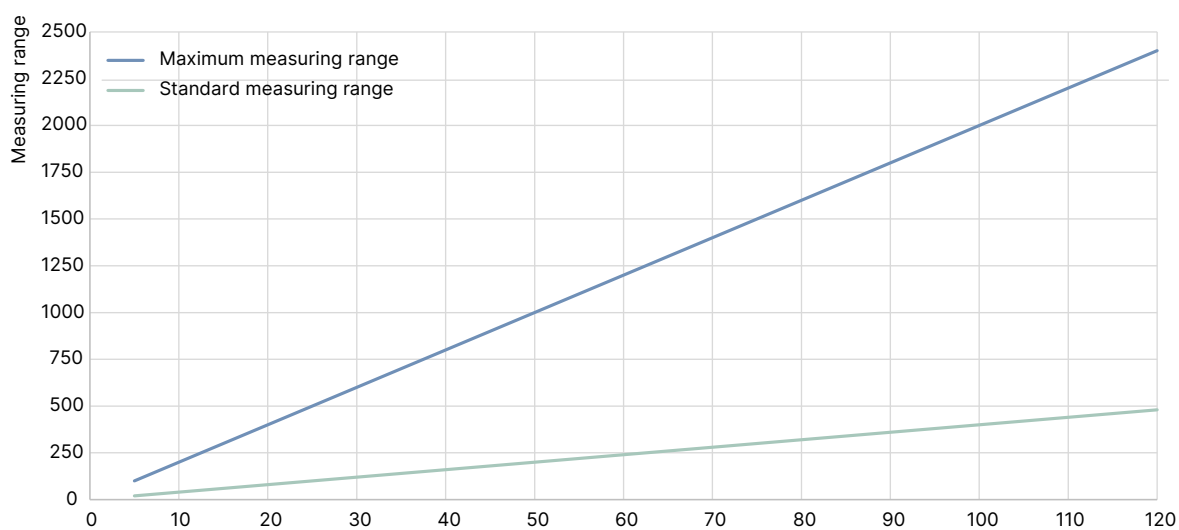
Note:

At a reduced nominal flow rate $Q_N = 10$ kg/h, the turndown ratio is 1:200 (only applies to size 1).

Size 1



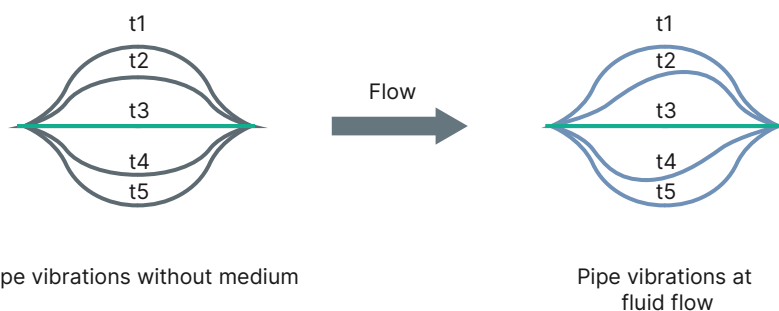
Size 2



7. Product operation

7.1. Measurement principle

The measurement principle of this flow sensor is based on the Coriolis effect. The core of the measuring system is a thin S-shaped measuring tube which is set into high-frequency vibration by an external exciter coil. The measuring tube can vibrate freely between 2 fixed points. When a liquid flows through the measuring tube, the Coriolis force acts on the medium and leads to a change in the tube vibration (see figure). ¹⁾ This phase shift is dependent on the mass flow of the medium and is directly proportional to it. Sensors continuously record the pipe vibrations and evaluate them electronically. In addition to the flow rate, the Bürkert Communicator software also provides information on the density and temperature of the medium.

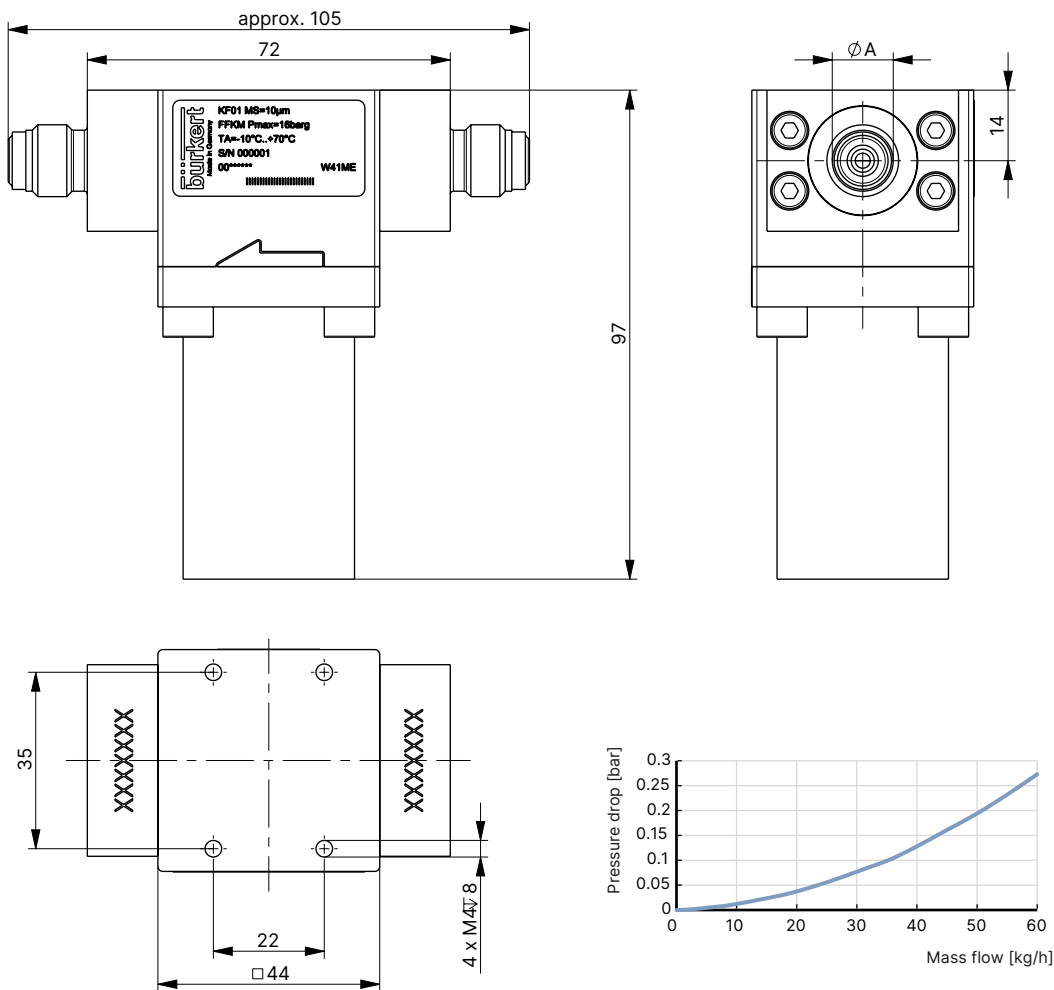


¹⁾ t1...t5: deflections of the measuring tube at the respective point in time

8. Product accessories

8.1. Medium filter

To avoid contamination in narrow areas of the device, close-meshed filters can be installed in front of these areas. The design of the filters allows the filter insert to be replaced without having to remove the complete filter from the pipeline.
The mesh size of the standard filter insert is 10 µm and the pressure drop reaches 30 mbar at 20 kg/h (measured with water at +20 °C). All parts in contact with the medium are made of stainless steel 1.4404/316L. This filter is available in different variants made of soft or hard seal materials, as well as with different port connections.



Note:
Metal seals cannot be replaced in the field.

Port connections	Seal material	Article number.
VCR ⅛	FFKM	573992
VCR ¼	FFKM	573993
Compression fitting, for 4 mm tube	FFKM	573996
Compression fitting, for 6 mm tube	FFKM	573997
Compression fitting, for ⅛" tube	FFKM	573994
Compression fitting, for ¼" tube	FFKM	573995
VCR ⅛	Metal ring, silver-coated	573986
VCR ¼	Metal ring, silver-coated	573987

Port connections	Seal material	Article number.
Compression fitting, for 4 mm tube	Metal ring, silver-coated	573990 
Compression fitting, for 6 mm tube	Metal ring, silver-coated	573991 
Compression fitting, for 1/8" tube	Metal ring, silver-coated	573988 
Compression fitting, for 1/4" tube	Metal ring, silver-coated	573989 

8.2. Bürkert Communicator software

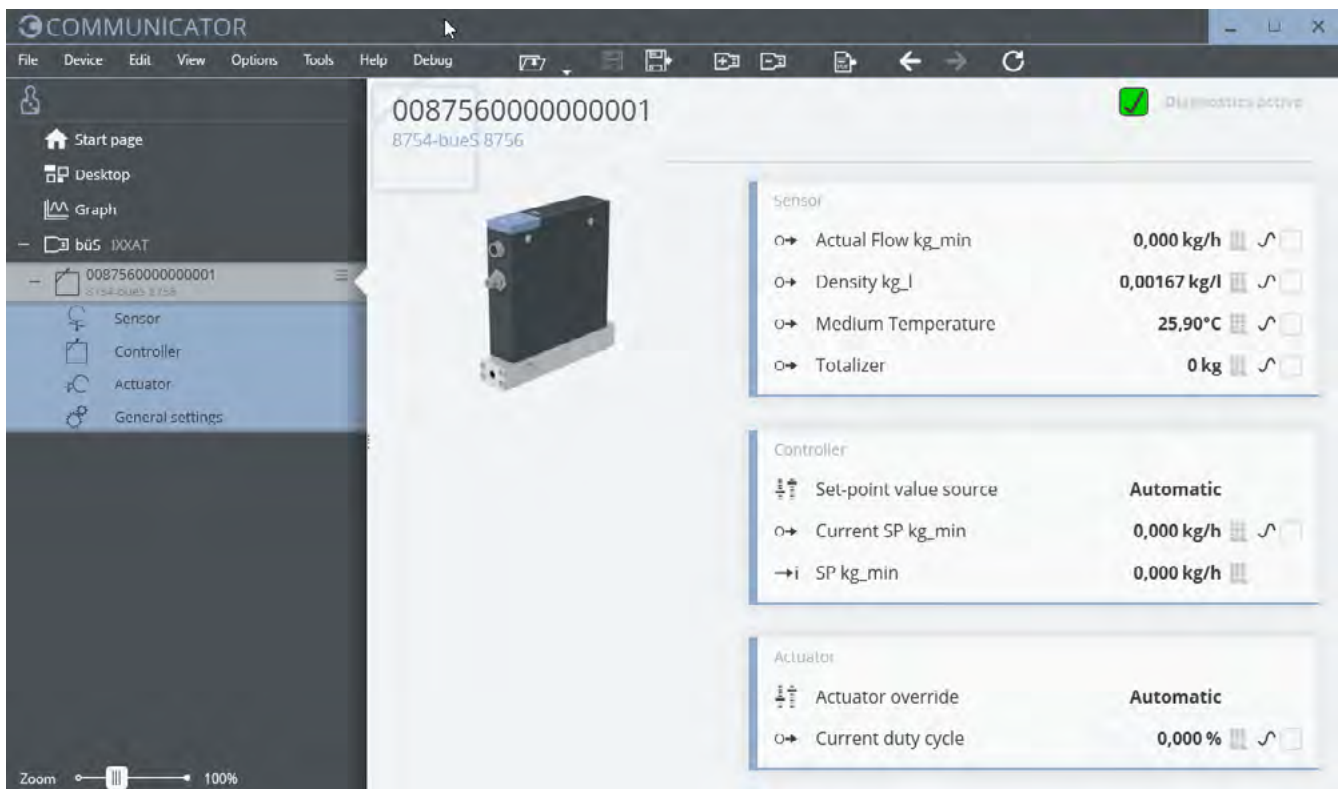
Note:

The corresponding communication software can be downloaded from the website under **Type 8920** ►.

The Bürkert Communicator is the most important software component of the EDIP (Efficient Device Integration Platform). Various features of this universal tool simplify the configuration and parameterisation of devices equipped with a digital CANopen-based interface. With this tool, the user has a complete overview of cyclic process values as well as acyclic diagnostic data. The integrated graphical programming environment enables the creation of decentralised sub-system control functions. The connection to the PC is established with a USB-bus interface set. The set is available as an accessory (see **"9.6. Ordering chart accessories" on page 33**).

The Bürkert Communicator enables:

- Configuration, parameterisation and diagnostics of EDIP devices/networks
- Setting for a defined gas composition
- Switching between defined gases
- Easy and comfortable mapping of cyclic values
- Graphic display, monitoring and storage of process values
- Firmware update of the connected EDIP devices
- Saving and restoring device configurations
- Zero-point adjustment in case of changed ambient conditions
- Guided recalibration routine



8.3. Connecting Type 8756 Standard with the Bürkert Communicator software

The Bürkert Communicator interface is based on CANopen. An appropriate bus termination is mandatory. Therefore, activate the switchable terminating resistor on the bÜS stick.

The device is connected via the micro USB socket (USB-bÜS interface set 2 contains the necessary accessories).

Note: No external power supply may be connected to the micro USB socket. The device must be provided with power as described in chapter [“5. Product connections” on page 22](#).

8.4. Configuration management for easy device replacement

If a device needs to be replaced, the memory card can be removed from the defective device and can be inserted into the new device. This transfers all data from the device to be replaced to the new device. A memory card is available as an accessory and must be ordered separately (see [“9.6. Ordering chart accessories” on page 33](#)).

In order to successfully replace the device, it is necessary that both the new device and the device to be replaced have the same article number.

9. Ordering information

9.1. 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](#)

9.2. Recommendation regarding product selection

Note:

Use the Product Enquiry Form (see [“9.4. Bürkert Product Enquiry Form” on page 32](#)) to enter the device details and send it to us once completed.

To choose the right orifice for the proportional valve within the MFC, you need to know both the required maximum flow rate Q_{N_r} and the pressure values directly upstream and downstream of the MFC (p_1 , p_2) at Q_{N_r} . These are often not identical to the inlet and outlet pressure of the entire system, because there are usually additional flow resistances (pipework, additional shut-off valves, nozzles, etc.) both upstream and downstream of the MFC.

Use the Product Enquiry Form to indicate the pressures directly upstream and downstream of the MFC. If the pressure values are unknown or not accessible for measurement, estimates are to be made by taking into account the approximate pressure drops over the flow resistors upstream and downstream of the MFC at Q_{N_r} . The maximum expected inlet pressure $p_{1,max}$ must be specified to ensure the sealing function of the proportional valve in all operating states.

9.3. Bürkert product filter

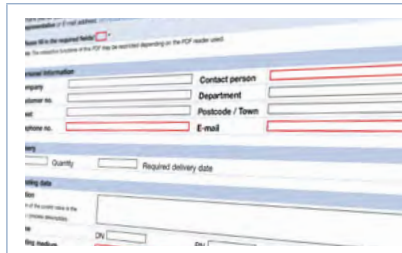


Bürkert product filter – Get quickly to the right product

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.

[Try out our product filter](#)

9.4. Bürkert Product Enquiry Form



The form includes fields for: Name, Address, City, Country, Telephone no., Fax, E-mail, Contact person, Department, Postcode / Town, Quantity, Required delivery date, and a checkbox for 'Fill out the form now'.

Bürkert Product Enquiry Form – Your enquiry quickly and compactly

Would you like to make a specific product enquiry based on your technical requirements? Use our Product Enquiry Form for this purpose. There you will find all the relevant information for your Bürkert contact. This will enable us to provide you with the best possible advice.

[Fill out the form now](#)

9.5. Ordering chart

Note:

Other variants on request

Variant	Size	Material	Seal material	Port connection	Article number.	
					büS/ CANopen	4...20 mA
Mass flow meter	Size 1	316L	Stainless steel	G 1/8	371787 	374113 
Mass flow meter	Size 1	316L	Stainless steel	VCR 1/4	378460 	378502 
Mass flow meter	Size 1	316L	Stainless steel	Compression fitting for 4 mm pipe	374105 	374121 
Mass flow meter	Size 1	316L	Stainless steel	Compression fitting for 6 mm pipe	379565 	379885 
Mass flow meter	Size 1	316L	Stainless steel	Compression fitting for 1/8" pipe	379642 	379887 
Mass flow meter	Size 1	316L	Stainless steel	Compression fitting for 1/4" pipe	379773 	379946 
Mass flow meter	Size 1	316L	FFKM	G 1/8	374108 	374122 
Mass flow meter	Size 1	316L	FFKM	VCR 1/4	374110 	378506 
Mass flow meter	Size 1	316L	FFKM	Compression fitting for 4 mm pipe	374112 	374128 
Mass flow meter	Size 1	316L	FFKM	Compression fitting for 6 mm pipe	379836 	379950 
Mass flow meter	Size 1	316L	FFKM	Compression fitting for 1/8" pipe	379882 	379954 
Mass flow meter	Size 1	316L	FFKM	Compression fitting for 1/4" pipe	379884 	379964 
Mass flow controller with pump	Size 1	316L	FFKM	G 1/8	376743 	378450 
Mass flow controller with pump	Size 1	316L	FFKM	VCR 1/4	378445 	378452 
Mass flow controller with pump	Size 1	316L	FFKM	Compression fitting for 6 mm pipe	378429 	378454 
Mass flow controller, modular	Size 1	316L	FFKM	G 1/8	389134 	391155 
Mass flow controller, modular	Size 1	316L	FFKM	VCR 1/4	389147 	391169 
Mass flow controller, modular	Size 1	316L	FFKM	Compression fitting for 4 mm pipe	389162 	391174 
Mass flow controller, modular	Size 1	316L	FFKM	Compression fitting for 6 mm pipe	389176 	391176 
Mass flow controller, modular	Size 1	316L	FFKM	Compression fitting for 1/8" pipe	389177 	391178 
Mass flow controller, modular	Size 1	316L	FFKM	Compression fitting for 1/4" pipe	389178 	391182 
Mass flow controller with proportional valve	Size 1	316L	FFKM	G 1/8	20001921 	574077 
Mass flow controller with proportional valve	Size 1	316L	FFKM	VCR 1/4	574071 	574078 
Mass flow controller with proportional valve	Size 1	316L	FFKM	Compression fitting for 4 mm pipe	574073 	574080 
Mass flow controller with proportional valve	Size 1	316L	FFKM	Compression fitting for 6 mm pipe	574074 	574081 
Mass flow controller with proportional valve	Size 1	316L	FFKM	Compression fitting for 1/8" pipe	574075 	574082 
Mass flow controller with proportional valve	Size 1	316L	FFKM	Compression fitting for 1/4" pipe	574076 	574083 
Mass flow meter	Size 2	316L	Stainless steel	G 1/8	575180 	575188 
Mass flow meter	Size 2	316L	Stainless steel	VCR 1/4	575182 	575190 
Mass flow meter	Size 2	316L	Stainless steel	Compression fitting for 4 mm pipe	575184 	575192 
Mass flow meter	Size 2	316L	Stainless steel	Compression fitting for 6 mm pipe	575185 	575193 
Mass flow meter	Size 2	316L	Stainless steel	Compression fitting for 1/8" pipe	575186 	575194 
Mass flow meter	Size 2	316L	Stainless steel	Compression fitting for 1/4" pipe	575187 	575195 

Variant	Size	Material	Seal material	Port connection	Article number.	
					büS/ CANopen	4...20 mA
Mass flow meter	Size 2	316L	FFKM	G 1/8	575220 	575228 
Mass flow meter	Size 2	316L	FFKM	VCR 1/4	575222 	575230 
Mass flow meter	Size 2	316L	FFKM	Compression fitting for 4 mm pipe	575224 	575232 
Mass flow meter	Size 2	316L	FFKM	Compression fitting for 6 mm pipe	575225 	575233 
Mass flow meter	Size 2	316L	FFKM	Compression fitting for 1/8" pipe	575226 	575234 
Mass flow meter	Size 2	316L	FFKM	Compression fitting for 1/4" pipe	575227 	575234 
Mass flow controller, modular	Size 2	316L	FFKM	G 1/8	575236 	575244 
Mass flow controller, modular	Size 2	316L	FFKM	VCR 1/4	575238 	575246 
Mass flow controller, modular	Size 2	316L	FFKM	Compression fitting for 4 mm pipe	575240 	575248 
Mass flow controller, modular	Size 2	316L	FFKM	Compression fitting for 6 mm pipe	575241 	575249 
Mass flow controller, modular	Size 2	316L	FFKM	Compression fitting for 1/8" pipe	575242 	575250 
Mass flow controller, modular	Size 2	316L	FFKM	Compression fitting for 1/4" pipe	575243 	575251 
Mass flow meter	Size 1	Alloy C22	PCTFE	Compression fitting for 1/4" pipe	575316 	575317 
Mass flow controller, modular	Size 1	Alloy C22	PCTFE	Compression fitting for 1/4" pipe	575318 	575319 

9.6. Ordering chart accessories

Note:

For details on items related to the medium filter, see ["8.1. Medium filter" on page 29](#).

Description	Article number.
General accessories	
USB-büS interface set 1 (Type 8923) for connection to the Bürkert Communicator software: includes connection cable (M12 and micro USB), stick with integrated terminating resistor, power supply and software	772426 
USB-büS interface set 2 (Type 8923) for connection to the Bürkert Communicator software: includes büS stick, connection cable to M12 plug, M12 to micro USB connection cable for the büS service interface and Y-distributor, cable length: 0.7 m	772551 
Power supply unit Phoenix Class2 (Type 1573), 85...240 V AC/24 V DC, 1.25 A, NEC Class 2 (UL 1310)	772438 
Power supply unit for standard rail (Type 1573), 100...240 V AC/24 V DC, 1 A, NEC Class 2 (UL 1310)	772361 
Power supply unit for standard rail (Type 1573), 100...240 V AC/24 V DC, 2 A, NEC Class 2 (UL 1310)	772362 
Power supply unit for standard rail (Type 1573), 100...240 V AC/24 V DC, 4 A	772363 
Accessory cable for external proportional valve (M12 plug, angled, 8-pin (A-coded) on cable plug)	60021535 
Memory card	On request
Software Bürkert Communicator	Download from Type 8756 
For Type 8756 büS/CANopen	
büS cable extension, M12, cable length: 0.1 m	772492 
büS cable extension, M12, cable length: 0.2 m	772402 
büS cable extension, M12, cable length: 0.5 m	772403 
büS cable extension, M12, cable length: 1 m	772404 
büS cable extension, M12, cable length: 3 m	772405 
büS socket, M12, straight, A-coded ¹⁾	772416 
büS plug, M12, straight, A-coded ¹⁾	772417 
büS socket, M12, angled, A-coded ¹⁾	772418 
büS plug, M12, angled, A-coded ¹⁾	772419 
büS Y-plug	772420 
büS Y-plug for networking of 2 separately supplied segments of a büS network	772421 
büS terminating resistor, M12 plug, 120 Ω	772424 
büS terminating resistor, M12 socket, 120 Ω	772425 
LabVIEW device driver	On request
EDS file	Download from Type 8756 
For Type 8756 Industrial Ethernet	
M8 plug, D-coded, to M12 plug, D-coded, cable length: 0.3 m	575443 

Description	Article number.
For Type 8756 Analogue	
M12 plug with cable, individual strands, A-coded, cable length: 5 m	566923 𐀀
M12 plug with cable, individual strands, A-coded, cable length: 10 m	571393 𐀀
M12 plug, shielded, 5-pin, cable length: 5 m	560365 𐀀
M12 plug, shielded, 5-pin, cable length: 10 m	563108 𐀀
Modular actuator interface	
M12 plug, angled, 8-pin, A-coded	775070 𐀀

1.) For space reasons, M12 individual push-in connectors may not be suitable for simultaneous use on the same side as a Y-distributor. Use a commercially available overmoulded cable in this case.

