



Type 8006
Mass Flow Meter
(MFM)

Type 8008 Flowmeter for gases



Type 8746 Mass flow controller (MFC) / Mass flow meter (MFM) for gases



eCONTROL - Universal



Type 8311 Pressure measuring device / Switch

The direct-acting motor valve of Type 3280 is used for dosing of liquids and gases in closed or open control loops. The valve features a linear stepper motor as actuator. The integrated electronics simplify the process integration; additional actuation modules are not necessary. The motor's power consumption to hold a specific opening position of the valve is zero. This key feature can reduce the energy consumption of a plant dramatically and thus make it more efficient. Type 3280 is available as standard ON/OFF or proportional valve, as version with integrated positioner and as version with integrated process controller.



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1. General Technical Data

1.1. General

Product properties				
Dimensions	Detailed information can be found in chapter "4. Dimensions" on page 6.			
Material				
Fluid body	Brass or stainless steel			
Valve body	PC (Polycarbonate), PPS (Polyphenylene sulfide)			
Seal ^{1.)}	NBR for liquids			
	EPDM for liquids and special gases (e. g. ammonia, acetylene), FKM for neutral gases			
Weight	~0.7 kg			
Status display	LED (Detailed information can be found in the instruction manual)			
Performance data	50			
Nominal operating mode	Up to 100 % (depending on fluid and ambient temperature)			
Typical values of positioning behaviour ^{2.)}				
Hysteresis	<2 % of end value			
Response sensitivity	<1 % of end value			
Setting range	1:100			
Repeatability	< ±2 %			
Pressure range ^{3.)}	06 bar (high pressure version up to 22 bar (depending on orifice size, see "6.2. Pres- sure range" on page 11) available) Vacuum version (up to -0.9 bar			
Closing time	2.5 s (0100 % valve opening)			
Electrical data				
Operating voltage	24 V DC $\pm 10\%$ (max. residual ripple 10%)			
Power consumption	<1 W in holding position			
	Max. 8 W (DN 26) resp. max. 12 W (DN 8 and 10, as well as high-pressure versions)			
Medium data				
Operating medium	Neutral gases, liquids			
Medium temperature	0°C70°C			
V <mark>is</mark> cosity (max.)	600 mm²/s (cSt)			
Process/Port connection & communication	on			
Port connection size	G or NPT 1/4, 3/4, 1/2, sub-base, Cartridge (on request)			
Approvals and certificates	15			
Approval	FDA (optional and only available for certain versions) Detailed information can be found in chapter "2. Approvals" on page 4.			
Environment and installation				
Installation position	As required, preferably with actuator upright			
Ambient temperature	-10 °C+60 °C			
Degree of protection	IP54			

1.) For nominal sizes 1 and 1.5, PEEK seat seals are used. In this case the seat tightness of the valve is reduced.

2.) Characteristic data of control behaviour depends on process conditions.

3.) Pressure data [bar]: Overpressure with respect to atmospheric pressure

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Technical	Device variant						
data	Star	ndard	Posit	tioner	Process controller		
	ON/OFF	Control valve	Analogue	Digital (fieldbus)	Analogue	Digital (fieldbus)	
Electrical connection	M12 Plug, A-coded, 8 pin	M12 Plug, A-coded, 8 pin	M12 Plug, A-coded, 8 pin	M12 Plug, A-coded, 5 pin	M12 Plug, A-coded, 8 pin and M12 Socket, A-coded, 5 pin	M12 Plug, A-coded, 5 pin and M12 Socket, A-coded, 5 pin	
Input signal (setpoint)	Digital input: 05 V (log. 0, valve closed) or 1030 V (log. 1, valve open)	420 mA, 010 V, or PWM (800 Hz)	420 mA, 020 mA, 010 V, or 05 V	_	420 mA, 020 mA, 010 V, or 05 V	_	
Input signal (actual value from ext. Sensor)	-	_	-	ama	420 mA, 020 mA, 010 V, 05 V	420 mA, 020 mA, 010 V, 05 V, or Frequency (52000 Hz)	
Input imped- ance for ana- logue input	22 κΩ	60 Ω (current), 22 kΩ (voltage)	60 Ω (current), 22 kΩ (voltage)	h	60 Ω (current), 22 kΩ (voltage)	60 Ω (current), 22 kΩ (voltage)	
Output signal (actual value)	Digital output: PNP, max. 100 mA current limits, feedback function (output signal active, when valve closed)	Digital output: PNP, max. 100 mA current limits, feedback function (output signal active, when valve closed)	0/420 mA (max. load: 560 Ω), 05/10 V (max. current: 10 mA)		0/420 mA (max. load: 560 Ω), 05/10 V (max. current: 10 mA)	-	
Fieldbus in <mark>te</mark> rface		-	-	büS / CANopen	-	büS / CANopen	
Parameteriza- tion Tool		ialists	Bürkert Communicator (Connection via büS stick)	Bürkert Communicator (Connection via büS stick)	Bürkert Communicator (Connection via büS stick)	Bürkert Communicator (Connection via büS stick)	

1.2. Standard, positioner and process controller version

Approvals control spec 2.

Note:

- The approvals or conformities listed below must be mentioned in all enquiries. This is the only way to ensure that the product . meets all the prescribed properties.
- Not all available device versions can be delivered with the mentioned approvals or conformities.

Approvals	Description				
FDA	Conformity of all materials in contact with the medium				
	FDA – Code of Federal Regulations Title 21 Paragraph 177 (CFR 21 177.2600)				

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3. Materials

3.1. Chemical Resistance Chart – 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

3.2. Material specifications



		1
No.	Element	Material
1	Spindle seat	FKM/EPDM/NBR
2	Spindle	Stainless steel
3	Upper fluids housing	Brass or Stainless steel
4	Piston with parabolic control element and guiding shaft	Stainless steel
5	Elastomer seat seal	FKM/EPDM/NBR
6	O-Ring	FKM/EPDM/NBR
7	Seat	Stainless steel
8	Fluids housing	Brass or Stainless steel

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4. Dimensions

4.1. Threaded body

Note:

- Dimensions in mm
- The acutator housing may be twisted against the fluidic body by up to 4.5°.



Α	В	С	D	E	F	G	Н
-	-	12	G %	97.4	137.2	12	27.5
6	10.3	-	NPT 38	97.4	137.2	12	27.5
-	-	12	G ¼	96.4	134.2	10	27.5
5.8	10	-	NPT 1/4	96.4	134.2	10	27.5
-	-	14	G ½	97.4	139.2	14	29.5
8.2	13.7	-	NPT ½	97.4	139.2	14	29.5

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4.2. Sub-base body

Note: Dimensions in mm



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4.3. Capacitive buffer module

Note:

- Dimensions in mm
- Detailed information can be found in chapter "8.1. Accessories capacitive buffer module" on page 14.



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5. Device/Process connections

5.1. Analogue

Note:

For parameterisation and configuration of the positioner and the process controller versions, please use the Bürkert Communicator software tool, "8.2. Software Bürkert Communicator" on page 14.



Circular connector M12, 8 pin	PIN	Configuration
3	1	24 V DC
4 2	2	Power supply GND
	3	Internal use ^{1.)}
	4	Internal use ^{1.)}
	5	Internal use ^{1.)}
6 <u> </u>	6	Signal input +
7	7	Signal output
	8	Signal GND

Only for positioners and process controllers version, for connection of the parameterization tools: Bürkert Communicator. The connection is via the büS-Stick. Using an adapter cable (M12 8 pin to M12 5 pin) the büS-Stick can be connected, see "9.4. Ordering chart accessories" on page 16).

Additional for process controller version:



5.2. Digital (Feldbus)

Note:

For parameterisation and configuration of the positioner and the process controller versions, please use the Bürkert Communicator software tool, "8.2. Software Bürkert Communicator" on page 14.

Circular connector M12, 5 pin	Pin	Configuration
3 , /2	1	Shield
	2	24 V DC
	3	GND
5 (((° ¶))	4	CAN high
4	5	CAN low

Additional for process controller version:

Socket M12, 5 pin	Pin	Configuration
4 , (1	1	24 V DC sensor power supply
	2	Analogue IN (020 mA, 420 mA, 05 V or 010 V)
	3	GND
5 + (6 9 3)))	4	GND (Bridge acc. to GND Pin3)
3 2	5	Not connected

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6. Performance specifications

6.1. Duty cycle derating diagram

Note:

- For motor valves it is essential to know the duty cycle during operation. Self-heating of the motor limits the maximum duty cycle. High ambient temperatures amplify the risk of damage due to overheating. The diagram below shows the suggested duty cycles dependent on the ambient temperature. Running the motor control valve in the power saving mode (lower actuator force) allows higher duty cycles. The motor is optimized for the valve function regarding dimensions, power consumption and costs.
- The duty cycle does not refer to the duty cycle of the device but to the duty cycle of the motor. This is not switched on unless the valve is to move. Frequent set-point value changes will drastically increase the duty cycle of the motor.
- Operating the valve beyond the suggested duty cycles leads to a drastically reduced lifetime of the valve.



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6.2. Pressure range

Standard version

Note:

Please use the product filter of our eShop on the Bürkert website to order from the standard program. Alternatively, the form can be used at the end of the data sheet.

		κ_{vs} -value water	Pressure range	
nm]		[m ³ /h] ^{2.)}	[bar(g)]	
	G ¼	0.03	06	
.5	G ¼	0.065	06	
	G ¼	0.15	06	
	G ¼	0.3	06	
	G %	0.5	06	
	G %	0.75	06	
	G %	0.9	06	
	G ½	1.5	06	
0	G ½	1.9	06	
n .5	m] ;	mj G ¼ G ¼ G ¼ G ¼ G ¼ G ¼ G ¼ G ¼ G ¼ G ¼ G ¼ G ½ G ½ G ½	mj mini (m / nj ^{2/)} G ¼ 0.03 G ¼ 0.065 G ¼ 0.15 G ¼ 0.3 G ¼ 0.5 G ¾ 0.5 G ¾ 0.75 G % 0.9 G ½ 1.5 G ½ 1.9	

1.) Other cable connections (NPT, sub-base) on request

2.) $\rm K_{\rm vs}\mathchar`-value:$ Measured with water (20 °C) and 1 bar pressure drop over value

High-pressure version

Note:

• Please use the product filter of our eShop on the Bürkert website to order from the standard program. Alternatively, the form can be used at the end of the data sheet.

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For applications requiring a higher operating pressure, high-pressure versions are available. Please note that for the high-pressure version, the control in the lower range of the characteristic curve (<5% of the max. set point) can be impaired.

Valve function	DN	Port connection ^{1.)}	K _{vs} -value water	Pressure range fluid media	Pressure range gaseous media
	[mm]		[m ³ /h] ^{2.)}	[bar(g)]	[bar(g)]
Control valve,	1	G 1⁄4	0.03	015	022
without safety	1.5	G 1⁄4	0.065	015	022
position in case of	2	G %	0.15	015	022
power failure	3	G 3/8	0.3	015	022
	4	G %	0.5	012 ^{3.)}	012 ^{3.)}
	5	G %	0.75	012 ^{3.)}	012 ^{3.)}
	6	G %	0.9	015	016
	8 0	G ½	1.5	012	012
ciul	10	G ½	1.9	010	010

1.) Other cable connections (NPT, sub-base) on request

2.) $K_{_{VS}}\text{-value:}$ Measured with water (+20 °C) and 1 bar pressure drop over valve.

3.) Pressure range 0...12 bar for sealing material FKM, Pressure range 0...15 bar for sealing material EPDM, NBR

Further version	ons on	request
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Oxygen version Parts oil-, fat- and silicon free

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6.3. Flow characteristic

Determination of the K_v value

Note:

Once the K_v -value required for the application has been calculated, it can be compared with the K_{vs} -values from the ordering chart. The K_{vs} -value must be higher than the K_v -value of the application, but should be neither too high nor too close to it - as a recommendation: 10% higher.

3.) Absolute pressure

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7. Product operation

Standard on/off valve

In the ON / OFF version, an external voltage signal is digitized and the valve is closed or opened. The status of the two end positions of the valve are indicated on the LED. In addition, the valve position "closed" is reached via the digital output.

Standard control valve

The standard proportional valve converts an external standard signal (position set-point value) into a valve position. Both valve end positions are indicated by the LED status. Additionally, the digital output indicates when the "closed" valve position has been achieved.



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8. **Product accessories**

8.1. Accessories capacitive buffer module

Note:

- Dimensions see "4.3. Capacitive buffer module" on page 8. .
- Ordering information see "9.4. Ordering chart accessories" on page 16. •

Accessories	Description
Motor valve(s) connection	Capacitive buffer module for moving to a safety position in case of power failure
	• In order to be able to move to a safety position of the valve in the event of a power failure, the valve must be supplied with voltage via the capacitive buffer module. In the event of a power failure, the buffer module provides an output voltage of 18 V DC for a few seconds. The reduced input voltage is detected by the valve and the safety position is approached accordingly. Up to 3 valves of Type 3280 or 2 valves of Type 3285 can be connected to a buffer module. Factory setting of the safety position: "valve closed"
	 For standard version (functionality available as of software version A.08): adjustable via DIP switches (for the reverse operating direction, the safety position changes to "valve open".
24 V DC power supply For example: Single phase, primary switched mode power supply Type 1573	• For positioner and process controller version (functionality available as of software version A.06): adjustable via Bürkert Communicator (user-defined safety position)
8.2. Software Bürkert Com	nmunicator

Note:

DTS 1000240084 EN Version: X Status: RL (released | freigegeben | validé) printed: 01.06.2022

To install the software, click here >.

An adjustment of the valve by the Bürkert Communicator is only possible with the positioner or process controller versions.

Part of Bürkert's new EDIP program (Efficient Device Integration Platform) is the Bürkert Communicator. This software can be run under MS-Windows and it is available on Bürkert's website for free. The Bürkert Communicator allows convenient system configuration and parametrisation of all connected field devices. An accessory part, the büS stick serves as the interface between computer and process instruments (see "9.4. Ordering chart accessories" on page 16). The Communicator allows:

- Diagnostics •
- Parameterisation

- Registration and storage of process data
- To watch graph of process
- To update firmware of the device connected
- Guided re-calibration

A Startpage	2941	
TP Designa		
100 Graph	Imputer / Glatpute	
	0+ Process value	0,000 🗸
Dates com	0+ Set-point	0,000 %?
- In Material Services	D+ Value position	0,000% ,0
L Inputs / Datasits		
Come parameter positioner	Control parameters anotherer	
A Georgi option	De Setement /X CONTROLL	0.00036

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Connection Type 3280 with Bürkert Communicator software

The interface to the "Bürkert Communicator" software tool is based on CANopen. A corresponding bus termination is mandatory. For versions with standard signal interfaces, please activate the switchable terminating resistor on the büS stick. For versions with büS / CANopen communication interface, this terminating resistor should not be switched on if the device is already integrated in a properly terminated bus network.

- A büS stick is required to connect the motor valve to the "Bürkert Communicator" software tool. The büS stick sets contain the ٠ necessary accessories.
- Versions with büS / CANopen communication interface are connected directly via the 5 pin M12 plug (büS stick set 1 contains the necessary accessories).
- Versions with standard signal interfaces are connected via the 8 pin M12 plug on the device (büS stick set 1 + büS adapter; socket 8 pin-M12 to plug 5 pin-M12 contain the necessary accessories).

9. Ordering information

9.1. Bürkert eShop - Easy ordering and quick delivery



9.2. Recommendation regarding product selection

Note:

- The configuration of the nominal diameter/orifice is very important for proportional valves to ensure proper functioning within the application. The nominal diameter/orifice must be selected in such a way that on the one hand the desired flow range is achieved and on the other hand a sufficient part of the total pressure drop across the valve takes place when the valve is fully open.
- Reference value: pressure drop of the valve >25 % of the total pressure drop
- Let Bürkert engineers advise you already in the planning phase!

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

Try out our product filter

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Artikel-Nr.

16 | 17

9.4. Ordering chart accessories

Standard accessories

Description	Artikel-Nr.
Power supply Type 1573 for rail mounting, 100-240 V AC/ 24 V DC, 1.25 A, NEC Class 2 (UL 1310)	772438 📜
Power supply Type 1573 for rail mounting, 100-240 V AC/ 24 V DC, 1 A	772361 📜
Power supply Type 1573 for rail mounting, 100-240 V AC/ 24 V DC, 2 A	772362 🛒
Power supply Type 1573 for rail mounting, 100-240 V AC/ 24 V DC, 4 A	772363 🛒
Buffer module Type 1573 for safety positon when power failure	773440 🛒

Accessories cable

Description		Artikel-Nr.
Connection cable M12 socket, 8 pin, 2 m ready-made shielded cable for input and output signals	181	918991 🛱
Connection cable M12 plug, 5 pin, 2 m ready-made shielded cable for actual process value input signals (only for version with process controller)		559177 🛒

Bürkert accessories

Note:

- For connection to a büS/CANopen network see cabling guide . Detailed accessory tables can be found in the wiring guide •
- Can only be used with positioner and process controller version. •

Fluid Control Specialists

Description	
Software Bürkert Communicator, Type 8920	
hüS adapter: socket, 8 pin-M12 to plug 5 pin-M12 (for bü	S stick connectiv

Software Burkert Communicator, Type 8920	LINK 🕨
büS adapter; socket 8 pin-M12 to plug 5 pin-M12 (for büS stick connection) ^{1.)}	773286 🛒
büS stick set 1 (including power supply unit, büS stick, terminating resistor, Y-distributor, cable) ^{1,)}	772426 🛒
büS stick set 2 (including büS stick, terminating resistor, Y-distributor, cable) ^{1.)}	772551 📜

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