



Mass Flow Controller for Gases (MFC)

- Nominal flow ranges from 20 IN/min up to 2500 IN/min
- High accuracy and repeatability

Optional: Fieldbus interface

- Short settling times
- Protection class IP65
- Type 8626 can be combined with...





Type 8619 Multichannel program controller



Type 6013 2/2-way valve

The mass flow controller (MFC) type 8626 is suited for regulating the mass flow of high gas flows. The thermal inline sensor is located directly in the gas stream and therefore reaches very fast response times. A direct-acting proportional valve from Bürkert guarantees a high sensitivity. The integrated PI controller ensures outstanding control characteristics of the MFC.

Type 8626 can optionally be calibrated for two different gases; the user can switch between these two gases. As electrical interfaces both, analog standard signals and fieldbuses are available.

The mass flow controller type 8626 is especially designed for use in harsh environments due to a low sensitivity to contamination and the high protection class. The MFC fits for various applications, like e.g. burner controls,

Technical Data	
Nominal flow range ¹⁾	20 to 1500 l _N /min ²⁾ , N ₂ equivalent
(Q _{nom})	see table on page 2, higher flows on request
Turn-down ratio	1:50 ³⁾
Operating gas	Neutral, non-contaminated
	gases, others available on request
Calibration gas	Operating gas or air with correcting function
Max. operating pressure	Up to max. 10 bar,
(inlet pressure)	depending on the orifice of the valve
Gas temperature	-10 to +70°C (-10 to +60°C with oxygen)
Ambient temperature	-10 to +45°C (higher temperatures on re-
	quest)
Accuracy	±1.5% o.R. ±0.3% F.S.
(after 15 min warm up time)	(o.R.: of reading; F.S.: of full scale)
Repeatability	±0.1% F.S.
Settling time (t _{95%})	<500 ms
Materials	
Body	Aluminium (black anodized) or stainless steel
Housing	Aluminium (coated)
Seals	FKM, EPDM

¹⁾ The nominal flow value is the max. flow value calibrated which can be controlled. The nominal flow range defines the range of nominal flow rates (full scale values) possible. ²⁾ Index N: Flow rates referred to 1.013 bar and 0° C.

Alternatively there is an Index S available which refers to 1.013 bar and 20° C

 $^{\scriptscriptstyle 3)}$ With vertical installation and flow downwards the turn-down ratio is 1:10

heat treatment, metallurgy, food and beverage industry, environmental technology, material coatings, fuel cell technology or test benches.

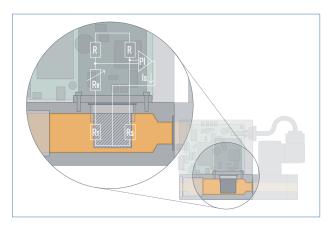
Port connection	G 1/4", 3/8", 1/2", 3/4", 1" NPT 1/4", 3/8", 1/2", 3/4", 1"
Control valve	Normally closed
Valve orifice	0.8 to 12 mm
k _{ve} value	0.02 to 2.8 m ³ /h
Electr. connection	Socket M16, round, 8-pin and
	socket D-Sub HD15, 15-pin
Additionally with:	
-PROFIBUS-DP:	Socket M12 5-pin or D-Sub 9-pin
-DeviceNet/CANopen:	Plug M12 5-pin or D-Sub 9-pin
with RS485 version only:	Plug D-Sub 9-pin
Operating voltage	24V DC
Voltage tolerance	±10%
Residual ripple	< 2%
Power consumption	12,5 W-37 W (depending on version)
Type of protection	IP65
(with connected cables)	
Dimensions	See drawings on p. 6–9
Total weight	2,5 kg (Al, 16 W-valve)
(examples)	4,5 kg (VA, 16 W-valve)
Mounting position	Horizontal or vertical
Light emitting diodes	Indication for
(Default, other functions programmable)	
	2. Communication 4. Error

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Technical Data (cont.)			
Device variant	Analog signal version	Fieldbus version	RS485 version (only D-Sub, 9-pin)
Analog communication		None	None
Input signal (set point)	0-5 V, 0-10 V, 0-20 mA or 4-20 mA		
Input impedance	>20 kΩ (voltage)		
	<300 Ω (current)		
Output signal (actual flow)	0-5 V, 0-10 V, 0-20 mA or 4-20 mA		
Max. current voltage output	10 mA		
Max. load current output	600 Ω		
Fieldbus option	None	PROFIBUS-DP, DeviceNet, CANopen	Modbus RTU (via RS interface)
(D-Sub HD15 covered with sealed plate for,			
pins for analogue inputs/outputs not			
connected)			
Digital communication	RS232 (supports Modbus RTU)		RS485, RS422
via adapter possible:	RS485, RS422 or USB		USB
Binary inputs	Three:	1	One: Start Autotune
(Default, other functions programmable)	1. Start Autotune		
	2. not assigned		
	3. not assigned		
Binary outputs	Two relay outputs		One relay output
(Default, other functions programmable)	1. Limit (desired value cannot be achieved)		1. Limit (desired value cannot be achieved)
	2. Error (e.g. sensor fault)		Load capacity: max. 25 V, 1 A, 25 VA
	Load capacity: max. 60 V, 1 A, 60 VA		

Measuring Principle



This sensor works as a hot-film anemometer in the so-called CTA operational mode (Constant Temperature Anemometer). To do this, two resistors with precisely specified temperature coefficients located directly in the media flow and three resistors located outside the flow are connected together to form a bridge.

The first resistor in the gas flow ($\mathsf{R}_{_{T}})$ measures the fluid temperature, while the second, low-value resistor (R_c) is heated so that it is maintained at a fixed, predefined over-temperature with respect to the fluid tem-

Notes Regarding the Configuration

For the proper choice of the actuator orifice within the MFC, not only the required maximum flow rate $\boldsymbol{Q}_{_{nom}}\!,$ but also the pressure values directly before and after the MFC $({\bf p}_{_1},{\bf p}_{_2})$ at this flow rate ${\bf Q}_{_{nom}}$ should be known. In general, these pressures are not the same as the overall inlet and outlet pressures of the whole plant, because there are usually additional flow resistors (tubing, additional shut-off valves, nozzles etc.) present both before and after the controller.

Nominal Flow Ranges of Typical Gases

other	gases	on	request)

Gas	Min. Q _{nom} [I _N /min]	Max. Q _{nom} [I _N /min]
Acetylene	20	975
Ammonia	20	1250
Argon	20	1500
Carbon dioxide	20	800
Air	20	1500
Methane	20	750
Propane	20	400
Oxygen	20	1500
Nitrogen	20	1500

perature. The heating current required to maintain this is a measure of the heat being removed by the flowing gas, and represents the primary measurement.

An adequate flow conditioning within the MFC and the calibration with high-quality flow standards ensure that the mass of gas flowing per time unit can be derived from the primary signal with high accuracy.

Please use the specification sheet (p. 10) to indicate the pressures directly before and after the MFC. If these should be unknown or not accessible to a measurement, estimates are to be made by taking into account the approximate pressure drops over the flow resistors before and after the MFC, respectively, at a flow rate of Q_{nom}.

In addition, please quote the maximum inlet pressure $\mathbf{p}_{1\text{max}}$ to be encountered. This data is needed to make sure the actuator is able to provide a close-tight function within all the specified modes of operation.

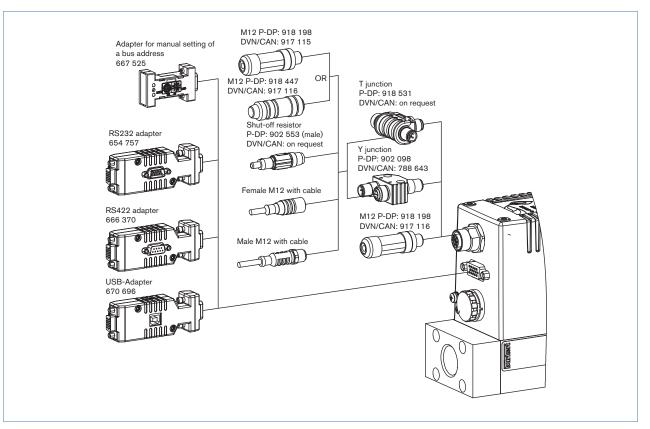
Please use the form on page 10 for the information about your specific requirements.



Ordering Chart for Accessories

Article	Iten	n No.
Connectors/Cables	n	
Round plug M16 8-pin (solder connection)		918 299
Round plug M16 8-pin with 5m cable		787 733
Round plug M16 8-pin with 10m cable		787 734
Plug D-Sub HD15 15-pin with 5m cable		787 735
Plug D-Sub HD15 15-pin with 10m cable		787 736
Adapters 4)		
RS232 adapter for connection to a computer, connection with an extension cable (item no. 917039)		654 757
Extension cable for RS232 9-pin socket/plug 2 m		917 039
RS422-Adapter (RS485 compatible)		666 370
USB-Adapter for D-Sub HD15		670 696
USB-Adapter for D-Sub 9-pin (RS485 Version)		670 693
USB connection cable 2 m		772 299
Adapter for manual bus adresse settings (instad of SW)		667 525
Software MassFlowCommunicator		Download from www.buerkert.com
Accessories for Fieldbus	PROFIBUS DP (B-coded)	DeviceNet/ CANopen (A-coded)
M12-Plug ⁵⁾	918 198	917 115
M12-socket (coupling) ⁵⁾	918 447	917 116
Y-junction ⁵⁾	902 098	788 643
T-junction	918 531	(on request)
Shut-off resistor	902 553	(on request)
GSD-File (PROFIBUS), EDS-File (DeviceNet, CANopen)		vww.buerkert.com be 8626)

⁴⁾ The adapters serve mainly for initial operation or diagnosis. Those are not obligatory for continuous operation. ⁵⁾ The two M12 connectors as listed above cannot be used together on the same side of the Y-junction. At least one of the two M12 connection needs to be a prefabricated cable which uses typiclly a thinner connector.



8626



Pin Assignment

	Socket D-Sub HD15	Pin	Assignment	
			Analogue Control	Bus control
		1	Set value input +	N.C. ⁶⁾
	F 4 3 0 4	2	Set value input GND	N.C.
	5 4 3 2 1	3	Actual value output +	N.C.
		4	Binary input 2	
		5	12V-Output	
			(only for internal company u	se)
		6	RS232 TxD	
			(direct connection to compu	uter)
	00000	7	Binary input 1	
00		8	GND (for binary inputs)	
		9	only company internal use (do not connect!)	
	15 14 13 12 11	10	12V-Output (only for internal company u	se)
		11	12V-Output (only for internal company u	se)
		12	Binary input 3	
		13	Actual value output GND	N.C.
		14	RS232 RxD	
		15	direct connection to compu	ter)
Standard		15	DGND (for RS232-interface)	
		⁶⁾ N C	: not connected (not used)	
		– The limit	ional Pin 1 and 2 with bus version cable length for RS232/ Setpoint ed to 30 meters.	
	Socket M16, round, 8-pin	Pin	Assignment	
	7, ,8	1	24V-Supply +	
		2 3	Relay 1 – reference contact	
	6		Relay 2 – reference contact	
	3. ⁶	4	Relay 1 - normally closed	
	3 6	4 5	Relay 1 – normally closed Relay 1 – normally opened	
		4 5 6	Relay 1 – normally closed Relay 1 – normally opened 24V-Supply GND	
		4 5 6 7	Relay 1 – normally closed Relay 1 – normally opened 24V-Supply GND Relay 2 – normally opened	
		4 5 6	Relay 1 – normally closed Relay 1 – normally opened 24V-Supply GND	
		4 5 6 7	Relay 1 – normally closed Relay 1 – normally opened 24V-Supply GND Relay 2 – normally opened	
	Socket D-Sub 9-pin	4 5 6 7	Relay 1 – normally closed Relay 1 – normally opened 24V-Supply GND Relay 2 – normally opened	
00		4 5 6 7 8	Relay 1 – normally closed Relay 1 – normally opened 24V-Supply GND Relay 2 – normally opened Relay 2 – normally closed	DeviceNet/ CANopen
	Socket D-Sub 9-pin	4 5 6 7 8	Relay 1 – normally closed Relay 1 – normally opened 24V-Supply GND Relay 2 – normally opened Relay 2 – normally closed	b DeviceNet/
	Socket D-Sub 9-pin	4 5 7 8	Relay 1 – normally closed Relay 1 – normally opened 24V-Supply GND Relay 2 – normally opened Relay 2 – normally closed Assignment PROFIBUS DP Shield N.C.	t DeviceNet/ CANopen Shield CAN-L data line
	Socket D-Sub 9-pin (only with fieldbus version)	4 5 6 7 8 8 Pin 1 2 3	Relay 1 – normally closed Relay 1 – normally opened 24V-Supply GND Relay 2 – normally opened Relay 2 – normally closed Assignment PROFIBUS DP Shield N.C. RxD/TxD - P (B-line)	t DeviceNet/ CANopen Shield CAN-L data line GND
	Socket D-Sub 9-pin (only with fieldbus version)	4 5 6 7 8 8 Pin 1 2 3 4	Relay 1 – normally closed Relay 1 – normally opened 24V-Supply GND Relay 2 – normally opened Relay 2 – normally closed Assignment PROFIBUS DP Shield N.C. RxD/TxD - P (B-line) RTS (control signal for repeater)	b b b c c c c c c c c c c c c c
	Socket D-Sub 9-pin (only with fieldbus version)	4 5 6 7 8 8 Pin 1 2 3 4 5	Relay 1 – normally closed Relay 1 – normally opened 24V-Supply GND Relay 2 – normally opened Relay 2 – normally closed Relay 2 – normally closed Shield N.C. RxD/TxD - P (B-line) RTS (control signal for repeater) GND	t DeviceNet/ CANopen Shield CAN-L data line GND N.C. N.C. N.C.
	Socket D-Sub 9-pin (only with fieldbus version)	4 5 6 7 8 8 Pin 1 2 3 4 5 6	Relay 1 – normally closed Relay 1 – normally opened 24V-Supply GND Relay 2 – normally opened Relay 2 – normally closed Relay 2 – normally closed Shield N.C. RxD/TxD - P (B-line) RTS (control signal for repeater) GND VDD (only for termination resistor)	t DeviceNet/ CANopen Shield CAN-L data line GND N.C. N.C. N.C.
	$\frac{1}{2}$	4 5 6 7 8 8 7 8 7 8	Relay 1 – normally closed Relay 1 – normally opened 24V-Supply GND Relay 2 – normally opened Relay 2 – normally closed Relay 2 – normally closed Shield N.C. RxD/TxD - P (B-line) RTS (control signal for repeater) GND VDD (only for termination resistor) N.C.	t DeviceNet/ CANopen Shield CAN-L data line GND N.C. N.C. CAN-H data line CAN-H data line
	Socket D-Sub 9-pin (only with fieldbus version)	4 5 6 7 8 8 7 8 1 2 3 4 5 6 7 8	Relay 1 – normally closed Relay 1 – normally opened 24V-Supply GND Relay 2 – normally opened Relay 2 – normally closed Relay 2 – normally closed Shield N.C. RxD/TxD - P (B-line) RTS (control signal for repeater) GND VDD (only for termination resistor) N.C. RxD/TxD - N (A-line)	beviceNet/ CANopen Shield CAN-L data line GND N.C. N.C. N.C. CAN-H data line N.C.
	$\frac{1}{2}$	4 5 6 7 8 8 7 8 7 8	Relay 1 – normally closed Relay 1 – normally opened 24V-Supply GND Relay 2 – normally opened Relay 2 – normally closed Relay 2 – normally closed Shield N.C. RxD/TxD - P (B-line) RTS (control signal for repeater) GND VDD (only for termination resistor) N.C.	beviceNet/ CANopen Shield CAN-L data line GND N.C. N.C. N.C. N.C. CAN-H data line

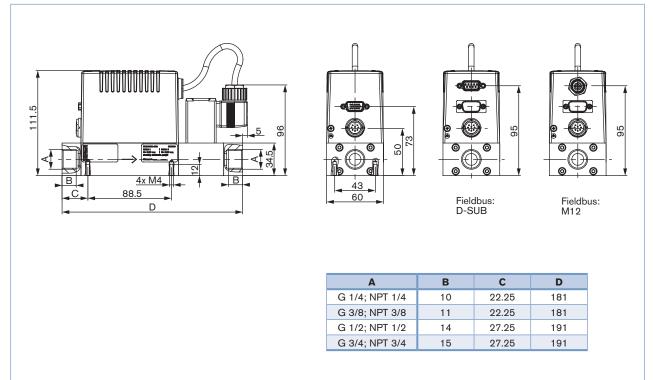


Pin Assignment (continued)

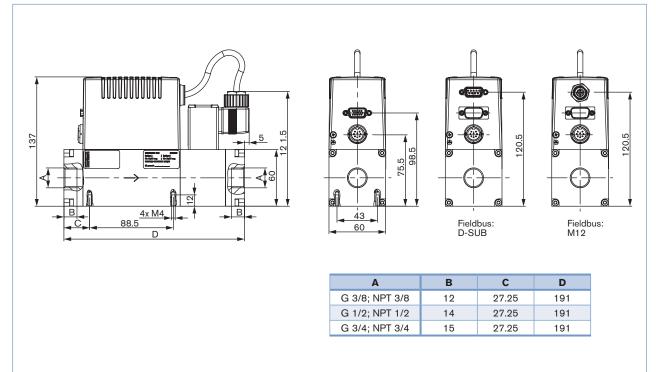
	PROFIBUS DP – socket B-coded M12	Pin	Assignment
	(DPV1 max. 12 Mbaud)	FIII	Assignment
		1	VDD (only for termination resistor)
	1	2	RxD/TxD – N (A-line)
	2	3	DGND
		4	RxD/TxD – P (B-line)
		5	N.C.
	5		
	4		
bus			
	DeviceNet/ CANopen -	Pin	Assignment
	Plug A-coded M12	1	Shield
	2, 1	2	N.C. ⁷⁾
		3	DGND
		4	CAN_H
		5	CAN_L
1.11			
	5		
	5	7) Opti	ional configuration with 24V DC possible for power supply
		⁷⁾ Opti via fi	ional configuration with 24V DC possible for power supply
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		⁷⁾ Opti via fi	ional configuration with 24V DC possible for power supply ieldbus connector. With this no power supply connection or
	3	⁷⁾ Opti via fi roun	ional configuration with 24V DC possible for power supply ieldbus connector. With this no power supply connection or id M16 plug needed.
		^o) Opti via fi roun	Ional configuration with 24V DC possible for power supply ieldbus connector. With this no power supply connection on id M16 plug needed.
	3	 ⁷⁾ Optivia firmed for the second sec	Assignment Binary input (related to GND Pin 2)
	3	^o) Opti via fi roun	Assignment Binary input (related to GND Pin 2) GND
	Plug D-Sub 9-pin	 ^a Optivia fire via fire roun 	Assignment Binary input (related to GND Pin 2) GND Power supply +24V DC
0	Plug D-Sub 9-pin	 ^a Optivia fi via fi roun ^b Pin 1 2 3 4 	Assignment Binary input (related to GND Pin 2) GND Power supply +24V DC Relay, normally opened
	Plug D-Sub 9-pin	 ^a Optivia fire via fire v	Assignment Binary input (related to GND Pin 2) GND Power supply +24V DC Relay, normally consed
0	Plug D-Sub 9-pin	 ^a Optivia fi via fi roun ^b Pin 1 2 3 4 	Assignment Binary input (related to GND Pin 2) GND Power supply +24V DC Relay, normally opened Relay, normally closed TX+ (RS485-Y) – bridge with pin 9 at half
0	Plug D-Sub 9-pin	 ^a Optivia fire via fire v	Assignment Binary input (related to GND Pin 2) GND Power supply +24V DC Relay, normally opened Relay, normally closed TX+ (RS485-Y) – bridge with pin 9 at half duplex TX- (RS485-Z) – bridge with pin 8 at half
0	Plug D-Sub 9-pin	 ^a Optivia fire via fire v	Assignment Binary input (related to GND Pin 2) GND Power supply +24V DC Relay, normally opened Relay, normally closed TX+ (RS485-Y) – bridge with pin 9 at half duplex TX- (RS485-Z) – bridge with pin 8 at half duplex
	Plug D-Sub 9-pin	 ^a Optivia fire via fire v	Assignment Binary input (related to GND Pin 2) GND Power supply +24V DC Relay, normally opened Relay, normally closed TX+ (RS485-Y) – bridge with pin 9 at half duplex TX- (RS485-Z) – bridge with pin 8 at half duplex RX- (RS485-B)
0	Plug D-Sub 9-pin	 ^a Optivia fire via fire v	Assignment Binary input (related to GND Pin 2) GND Power supply +24V DC Relay, normally opened Relay, normally closed TX+ (RS485-Y) – bridge with pin 9 at half duplex TX- (RS485-Z) – bridge with pin 8 at half duplex
© et	Plug D-Sub 9-pin	 ^a Optivia fire via fire v	Assignment Binary input (related to GND Pin 2) GND Power supply +24V DC Relay, normally opened Relay, normally closed TX+ (RS485-Y) – bridge with pin 9 at half duplex TX- (RS485-Z) – bridge with pin 8 at half duplex RX- (RS485-B)
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viceNet	Plug D-Sub 9-pin	 ^a Optivia fire via fire v	Assignment Binary input (related to GND Pin 2) GND Power supply +24V DC Relay, normally opened Relay, normally closed TX+ (RS485-Y) – bridge with pin 9 at half duplex TX- (RS485-Z) – bridge with pin 8 at half duplex RX- (RS485-B)
ceNet	Plug D-Sub 9-pin	 ^a Optivia fire via fire v	Assignment Binary input (related to GND Pin 2) GND Power supply +24V DC Relay, normally opened Relay, normally closed TX+ (RS485-Y) – bridge with pin 9 at half duplex TX- (RS485-Z) – bridge with pin 8 at half duplex RX- (RS485-B)
© et	Plug D-Sub 9-pin	 ^a Optivia fire via fire v	Assignment Binary input (related to GND Pin 2) GND Power supply +24V DC Relay, normally opened Relay, normally closed TX+ (RS485-Y) – bridge with pin 9 at half duplex TX- (RS485-Z) – bridge with pin 8 at half duplex RX- (RS485-B)
eviceNet	Plug D-Sub 9-pin	 ^a Optivia fire via fire v	Assignment Binary input (related to GND Pin 2) GND Power supply +24V DC Relay, normally opened Relay, normally closed TX+ (RS485-Y) – bridge with pin 9 at half duplex TX- (RS485-Z) – bridge with pin 8 at half duplex RX- (RS485-B)
12 DeviceNet	Plug D-Sub 9-pin	 ^a Optivia fire via fire v	Assignment Binary input (related to GND Pin 2) GND Power supply +24V DC Relay, normally opened Relay, normally closed TX+ (RS485-Y) – bridge with pin 9 at half duplex TX- (RS485-Z) – bridge with pin 8 at half duplex RX- (RS485-B)



MFC 8626 with valve type 2873 (9W coil)

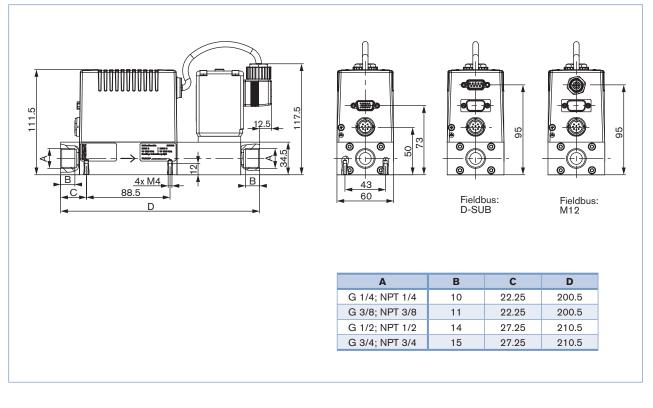


MFC 8626 with valve type 2873 (9W coil) and base block for large nominal flow rates

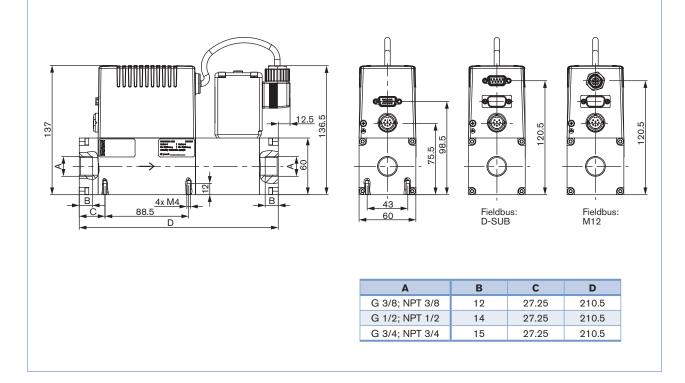




MFC 8626 with valve type 2875 (16W coil)

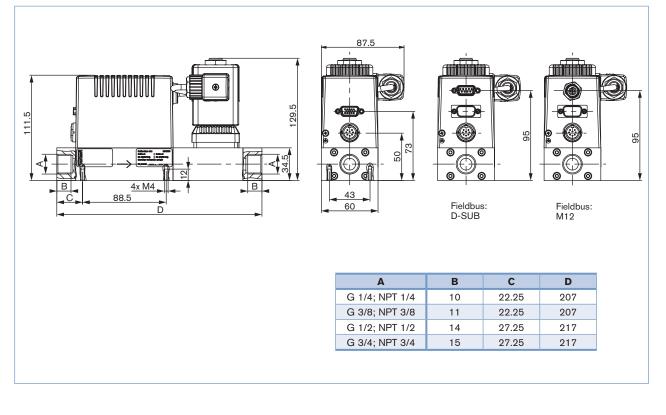


MFC 8626 with valve type 2875 (16W coil) and base block for large nominal flow rates

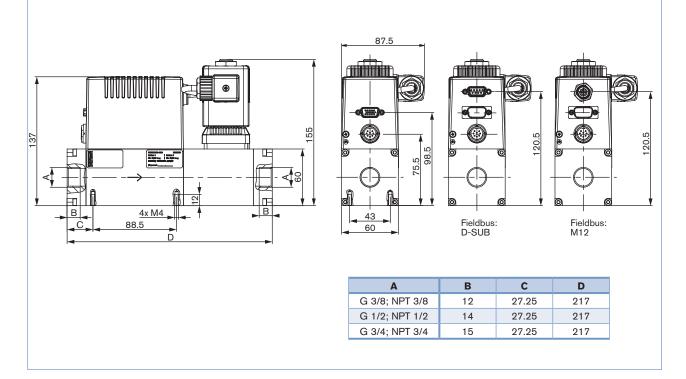




MFC 8626 with valve type 6024 (18W coil)

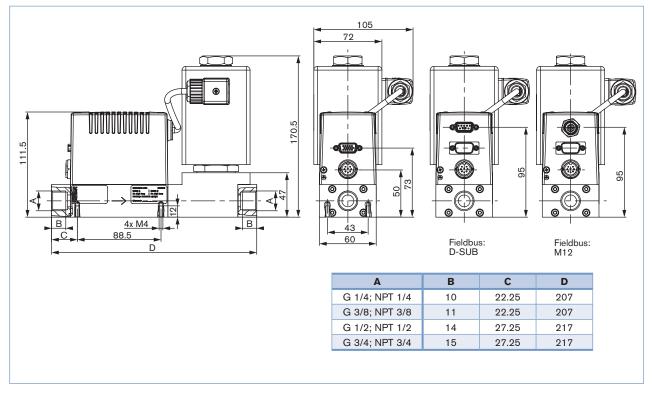


MFC 8626 with valve type 6024 (18W coil) and base block for large nominal flow rates

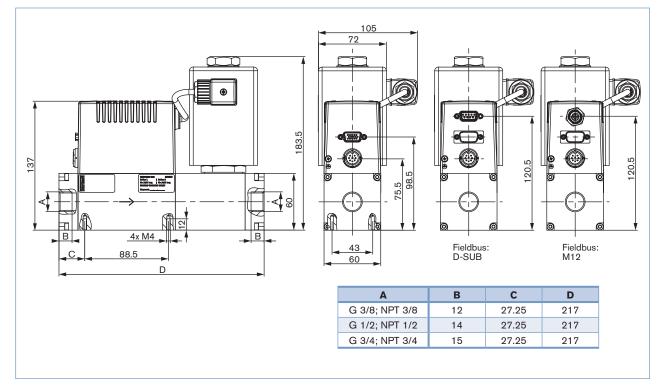




MFC 8626 with valve type 2836 (24W coil)



MFC 8626 with valve type 2836 (24W coil) and base block for large nominal flow rates



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Note

Please complete and send to your neal Company Customer No Address Postcode/Town MFC-Application MFM-Application		Contact person Department Tel./Fax E-mail uantity	Required delivery date	before out the	e for
Customer No Address Postcode/Town MFC-Application MFM-Applica	ntion Q.	Department Tel./Fax E-mail	Required delivery date		
Address Postcode/Town	ation Q.	Tel./Fax E-mail	Required delivery date		
Postcode/Town MFC-Application MFM-Applica	ntion Q	E-mail	Required delivery date		
	ation Q	uantity	Required delivery date		
			,,,,,,,		
Type of gas (or gas proportion in mixtures)					
Density	k	:g/m ^{3 8)}			
Gas temperature		c	٩		
Moisture content		J/m ³			
Abrasive components/solid particles	no	ves, as follows:			
Fluidic data			L		
Flow range Q _{nom}	N	/lin. I _N /min ⁸⁾	I _s /min (slpm) ⁹⁾		
	N	$fax.$ m_N^3/h^{8}	kg/h		
		\square cm _N ³ /min ⁸⁾	\Box cm _s ³ /min (sccm) ⁹⁾		
		$\prod_{N} I_{N} / h^{-8}$	□ l ₂ /h ⁹⁾		
Inlet pressure at Q_{nom}^{10} $p_1 =$	L L	oar(g) ■	3		
$\begin{array}{c} \text{Outlet pressure at } \mathbf{Q}_{\text{nom}} & \mathbf{p}_1 \\ \text{Outlet pressure at } \mathbf{Q}_{\text{nom}} & \mathbf{p}_2 \\ \end{array}$		par(g) ■			
Max. inlet pressure p _{1max}		ar(g) ■			
MFC/MFM port connection	without screw-in fit	.0.			
	3/8" G-thread 1/2" G-thread 3/4" G-thread with screw-in fitting	(DIN ISO 228/1) 3 (DIN ISO 228/1) 1 (DIN ISO 228/1) 3	/4" NPT-thread (ANSI B1.2) 3/8" NPT-thread (ANSI B1.2) /2" NPT-thread (ANSI B1.2) 3/4" NPT-thread (ANSI B1.2)		
Installation	horizontal, valve upr		orizontal, valve on side		
	vertical, flow upware	ds v	ertical, flow downwards		
Ambient temperature	•	С			
Material data					
Body (base block)	Aluminium (anodise	d) S	Stainless steel		
Seal material	FKM	E	PDM		
Electrical data					
. .	lard signal	with fieldbus	with RS485		
and actual value Setpo	int / Actual value				
	5 V 0-20 mA 10 V 4-20 mA	PROFIBUS DP DeviceNet CANopen	D-Sub D-Sub		
 Please quote all pressure values as overpressu 8) at: 1,013 bar(a) and 0°C 9) at: 1.013 bar (a) and 		spheric pressure [bar(ü)] hes with calibration pressure			
o find your nearest Bürkert facility, click on the	orange box	→ www.bue	erkert.com		
In case of special application conditions, please consult for advice.	Subject to alteration. © Christian Bürkert Gmb	H & Co. KG	1701/8_EU-en_(0891821	