



Insertion magnetic inductive flowmeter

- Sensor without moving parts
- Flowmeter with On/Off control
- Application related calibration by Teach-In function
- Clean in place (CIP)
- FDA-compliant materials





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

Can be combined with

Type 8025

Insertion flowmeter/batch controller with paddle wheel and flow transmitter/remote batch controller



Type 8802

ELEMENT continuous control valve systems overview



Type 8619

multiCELL - Multi-channel and multi-function transmitter/controller



Type 8644

AirLINE SP electropneumatic automation system

Type description

The electromagnetic flowmeter Type 8041 is made up of an electronic module and a sensor consisting of PVDF or stainless steel material. It has been designed to measure a flow rate of neutral and slightly aggressive fluids with a conductivity of more than 20 µS/cm in DN 06...DN 400 pipes.

The Type 8041 is fitted with a 4...20 mA output, a pulse output and a relay output. The different parameters can be set by means of 5 DIP switches, a push-button and a 10-field LED bar graph.

This flowmeter is available either with a G 2" connection with a PVDF sensor or, a G 2" or clamp connection with a stainless steel sensor which are designed for use with an Insertion fitting Type S020.

The variant with a stainless steel sensor can be used in applications with higher pressures (PN 16) and higher temperatures (150 °C).



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1. General technical data

Note:

If the device is mounted in a humid environment or outside, then the maximum voltage allowed is 35 V DC instead of 36 V DC.

Product properties

Material

Make sure the device materials are compatible with the fluid you are using.

Further information can be found in chapter "3.1. Bürkert resistApp" on page 8.

Further information on the materials can be found in chapter "3.2. Material specifications" on page 8.

Nan	wattad	narte

Polyester
 Variant with flow sensor in PVDF: PC
 Variant with flow sensor in stainless steel: back PPA (glass fibre reinforced)
 Variant with flow sensor in PVDF: PC (glass fibre reinforced)
 Variant with flow sensor in stainless steel: back PPA (glass fibre reinforced)
Stainless steel
Variant with flow sensor in PVDF: PC
Variant with flow sensor in stainless steel: back PPA (glass fibre reinforced)
Polysulphone, glass fibre reinforced
NBR
Stainless steel 1.4404/316L (for flowmeter with clamp process connection, over the clamp)
PA with neoprene seal
·
Stainless steel 1.4404/316L
• PVDF
Stainless steel 1.4404/316L
Only with variant with flow sensor in stainless steel: PEEK (conform to FDA)
• Stainless steel 1.4404/316L
• Alloy C22
Only with variant with flow sensor in PVDF:
Stainless steel 1.4404/316L
Alloy C22 For flower star with C 0 respectively.
For flowmeter with G 2" process connection:
 FKM (approved FDA)
 EPDM (conform to FDA)
For flowmeter with clamp process connection:
(to be ordered separately, further information can be found in chapter "10.5. Ordering chart
accessories" on page 19.)
- EPDM
- FEP
For flowmeter with clamp process connection: Ra < 0.8 µm
For flowmeter with G 2" process connection: Any pipe from DN 06DN 400 which is fitted with
Bürkert Type S020 Insertion fitting with G 2" sensor connection.
• For flowmeter with clamp process connection: Any pipe from DN 32DN 100 which is fitted with
Bürkert Type S020 Insertion fitting with clamp sensor connection.
For the selection of the nominal diameter of the Insertion fittings, see data sheet Type S020 \rightarrow .
For flowmeter with G 2" process connection: DN 06DN 400
For flowmeter with clamp process connection: DN 32DN 100
and the property of the control of t
Further information can be found in chapter "4. Dimensions" on page 9.
Further information can be found in chapter "4. Dimensions" on page 9. Electrodes

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• Flow velocity: 0.2...10 m/s



Performance data		
Measurement deviation	 Teach-In: ±0.5 % of the measured value ^{1,1} at Teach-In flow rate value 	
	 Standard K-factor: ±3.5 % of the measured value ^{1,)} 	
Linearity	±0.5% of full scale ^{1,)}	
Repeatability	±0.25% of the measured value 1.)	
420 mA output uncertainty	±1% of range	
Electrical data		
Operating voltage	1836 V DC ±0.5 %, filtered and regulated (3 wires)	
Power source (not supplied)	Limited power source according to UL/EN 62368-1 standards or limited energy circuit according to UL/EN 61010-1 §9.4	
DC reverse polarity protection	Yes	
Current consumption	≤220 mA (at 18 V DC)	
Output	• Frequency:	
	- 0240 Hz	
	 Duty cycle (pulse duration/period) = 50 %±1 % 	
	– 100 mA max.	
	 Protected against short-circuits and polarity reversals 	
	Relay:	
	 Normally open or normally closed (depending on wiring) 	
	 Non UL recognized device: 250 V AC/3 A or 40 V DC/3 A (resistive load) 	
	- UL recognized device: 30 V AC/42 Vpeak/3 A or 60 V DC/1 A	
	• Current:	
	- 420 mA	
	 Sink or source (by wiring) 	
	 100 ms refresh time 	
	 Max. loop impedance: 1100 Ω at 36 V DC; 330 Ω at 18 V DC 	
Fault signal	Full scale exceeding: 22 mA and 256 Hz	
	Fault signalling: 22 mA and 0 Hz	
Voltage supply cable	Shielded	
	 External diameter (cable): 612 mm (1 cable per cable gland) or 45 mm when using a multi-way seal (2 cables per cable gland) 	
	Cross section of wires: 0.51.5 mm ²	
Medium data		
Fluid temperature	 Variant with flow sensor in PVDF: 0+80 °C (+32+176 °F) (depends on Insertion fitting) 	
	 Variant with flow sensor in stainless steel: -15+150 °C (+5+302 °F) (depends on Insertion fitting) 	
	Further information can be found in chapter "5.1. Pressure temperature diagram" on page 11 and in the data sheet of the Insertion fitting, see data sheet Type S020 .	
Fluid pressure	Variant with flow sensor in PVDF: max. PN 10 (145.1 PSI)	
·	Variant with flow sensor in stainless steel:	
	Max. PN 10 (145.1 PSI) (with plastic Insertion fitting)	
	- Max. PN 16 (232.16 PSI) (with metal Insertion fitting)	
	Further information can be found in chapter "5.1. Pressure temperature diagram" on page 11 and in	
	the data sheet of the Insertion fitting, see data sheet Type S020 ▶.	
Viscosity	<1000 mPa.s	
Minimum conductivity	20 μS/cm	
Process/Pipe connection & co		
Process connection	G 2" for use with Type S020 Insertion fitting	
	 Clamp for use with Type S020 Insertion fitting or any pipe equipped with our clamp sensor connection 	
	See data sheet Type S020 ▶ for more information.	
Electrical connection	2 cable glands M20×1.5	
User parameter	Saved in EEPROM	

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Approvals and conformities	
Directives	
CE directive	Further information on the CE Directive can be found in chapter "2.3. Standards" on page 7.
Pressure equipment directive	Complying with article 4, paragraph 1 of 2014/68/EU directive Further information on the pressure equipment directive can be found in chapter "2.4. Pressure Equipment Directive (PED)" on page 7.
North America (USA/Canada)	UL Recognized for the USA and Canada
Foods and beverages/Hygiene	FDA declaration of conformity (only for stainless steel or PVDF sensor with FKM or EPDM seals)
	ECR1935/2004 declaration (only for stainless steel sensor with EPDM seals)
Environment and installation	
Ambient temperature	• Operation: -10+60 °C (+14+140 °F)
	• Storage: -20+60 °C (-4+140 °F)
Relative air humidity	≤80 %, without condensation
Height above sea level	Max. 2000 m
Operating condition	Continuous
Equipment mobility	Fixed
Application range	Indoor and outdoor Protect the device against electromagnetic interference, ultraviolet rays and, when installed outdoors, against the effects of climatic conditions.
Degree of protection 2.) according	IP65 with the following conditions met:
to IEC/EN 60529	device wired
	cover screwed tight
	cable glands mounted and tightened
	with blind plug on unused cable glands
Installation category	Category I according to UL/EN 61010-1
Pollution degree	Degree 2 according to UL/EN 61010-1

^{1.)} Under reference conditions i.e. measuring medium = water, ambient and water temperature = +20 °C (+68 °F), observing the minimum the minimum inlet and outlet sections and the appropriate inner diameter of the pipe.

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^{2.)} Not evaluated by UL



2. Approvals and conformities

2.1. General notes

- 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 of the device can be supplied with the below mentioned approvals or conformities.

2.2. Conformity

In accordance with the 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. Pressure Equipment Directive (PED)

The device conforms to article 4, paragraph 1 of the Pressure Equipment Directive (PED) 2014/68/EU under the following conditions:

Device used on a pipe

Note:

- The data in the table is independent of the chemical compatibility of the material and the fluid.
- PS = maximum admissible pressure (in bar), DN = nominal diameter of the pipe

Type of fluid	Conditions
Fluid group 1, article 4, paragraph 1.c.i	DN ≤25
Fluid group 2, article 4, paragraph 1.c.i	DN ≤32 or PS*DN ≤1000
Fluid group 1, article 4, paragraph 1.c.ii	DN ≤25 or PS*DN ≤2000
Fluid group 2, article 4, paragraph 1.c.ii	DN ≤200 or PS ≤10 or PS*DN ≤5000

2.5. North America (USA/Canada)

Approval	Description
c FL us	Optional: UL Recognized for the USA and Canada The products are UL Recognized for the USA and Canada according to: • UL 61010-1 • CAN/CSA-C22.2 No. 61010-1

2.6. Foods and beverages/Hygiene

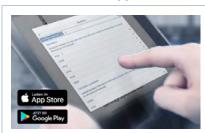
Conformity	Description
FDA	FDA – Code of Federal Regulations (valid for the variable code PL02, PL03) Only devices with stainless steel or PVDF sensor and FKM or EPDM seals are compliant with the Code of Federal Regulations published by the FDA (Food and Drug Administration, USA) according to the manufacturer's declaration.
기	EC Regulation 1935/2004 of the European Parliament and of the Council (valid for the variable code PL01, PL02) Only devices with stainless steel sensor and EPDM seals are compliant with EC Regulation 1935/2004/EC according to the manufacturer's declaration.

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3. Materials

3.1. Bürkert resistApp



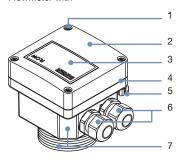
Bürkert resistApp - Chemical resistance chart

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

3.2. Material specifications

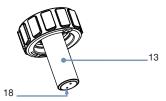
Flowmeter with



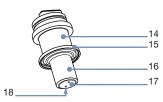
- G 2" process connection and sensor holder in PVDF or



- G 2" process connection and sensor holder in stainless steel or



- Clamp process connection and with sensor holder in stainless steel



No.	Element	Material	
1	Screws	Stainless steel	
2	Cover	PC for variant with flow sensor in PVDF	
		Black PPA, glass fibre reinforced for variant with flow sensor in stainless steel	
3	Front panel foil	Polyester	
4	Seal	NBR	
5	Screw	Stainless steel	
6	Cable glands	PA with neoprene seal	
7	Housing	PC, glass fibre reinforced for variant with flow sensor in PVDF	
		Black PPA, glass fibre reinforced for variant with flow sensor in stainless steel	
8	Nut	PC for variant with flow sensor in PVDF	
		PPA glass fibre reinforced for variant with flow sensor in stainless steel	
9	Mounting ring (open)	Polysulphone, glass fibre reinforced	
10	Seals	FKM (approved FDA)	
		EPDM included, but not mounted (conform to FDA)	
11	Sensor holder	PVDF	
12	Earth ring	Stainless steel 1.4404/316L or	
		Alloy C22	
13	Sensor holder	Stainless steel 1.4404/316L	
14	Holder	Stainless steel 1.4404/316L	
15	Clamp connection	Stainless steel 1.4404/316L	
16	Sensor holder	Stainless steel 1.4404/316L	
17	Electrode holder	PEEK (conform to FDA)	
18	Electrodes	Stainless steel 1.4404/316L or	
		Alloy C22	

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4. Dimensions

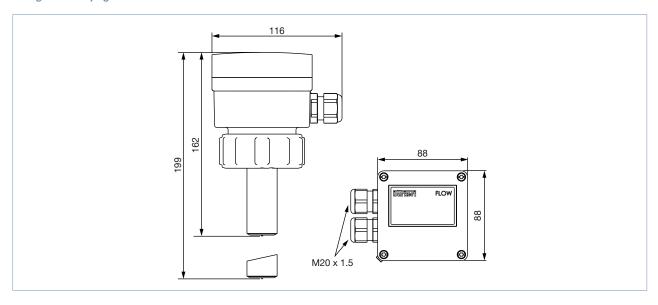
4.1. Flowmeter

With G 2" process connection

Note:

- Dimensions in mm, unless otherwise stated
- The length of the flow probe depends on the used Insertion fitting Type S020 and its nominal diameter.

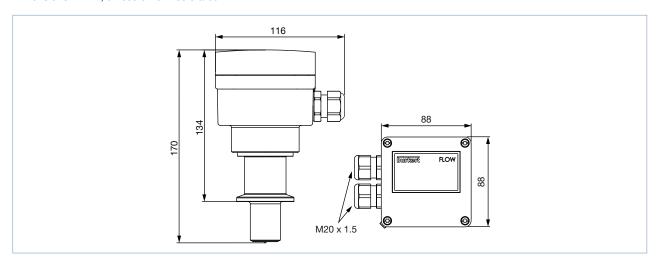
See data sheet Type S020 • for more information or chapter "9.2. Combination of the device with available Type S020 Insertion fittings DN" on page 16.



With clamp process connection

Note:

Dimensions in mm, unless otherwise stated



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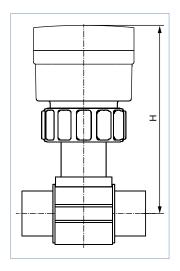


4.2. Flowmeter installed in an Insertion fitting Type S020

With G 2" process connection

Note:

Dimensions in mm, unless otherwise stated

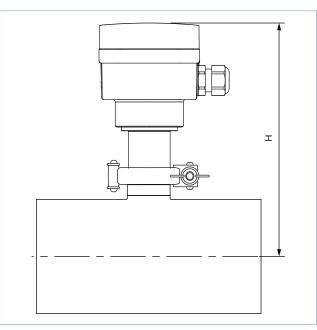


DN	Н				
	T-Fitting	Saddle	Plastic spigot	Metal spigot	
06	163	_	-	_	
80	163	_	_	_	
15	168	_	_	_	
20	166	-	_	_	
25	166	_	_	_	
32	169	_	_	<u>-</u>	
40	173	_	-	169	
50	179	204	_	174	
65	179	203	187	180	
80	_	207	193	185	
100	_	212	200	195	
110	_	208	_	_	
125	_	215	235	206	
150	_	225	242	217	
180	_	249	_	_	
200	_	261	263	238	
250	_	_	281	298	
300	_	_	293	317	
350	_	_	306	329	
400	_	_	321	_	

With clamp process connection

Note:

Dimensions in mm, unless otherwise stated



DN	Н	
	T-Fitting	
32	181	
40	186	
50	191	
65	199	
80	205	
100	211	



5. Performance specifications

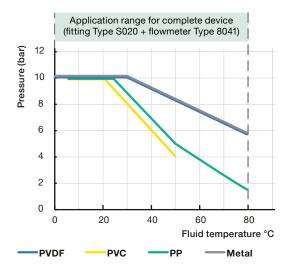
5.1. Pressure temperature diagram

Flowmeter with a PVDF sensor

Note:

Take into account the dependence between fluid pressure and temperature according to the fitting and flowmeter material shown in the following diagram.

See data sheet Type S020 ▶ for more information.

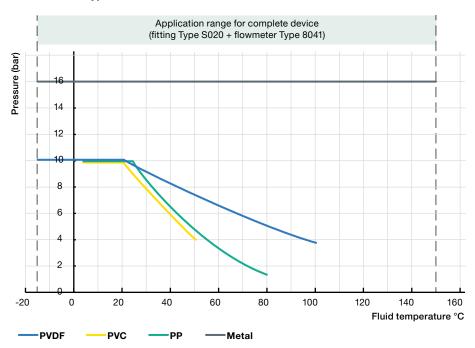


Flowmeter with a stainless steel sensor

Note:

Take into account the dependence between fluid pressure and temperature according to the fitting and flowmeter material shown in the following diagram.

See data sheet Type S020 ▶ for more information.





Product installation 6.

6.1. Installation notes

Note:

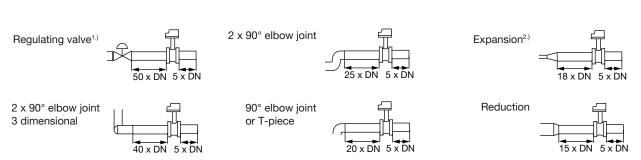
The device is not suitable for use in gaseous media and steam.

Minimum straight distances upstream and downstream of the sensor must be observed. These stabilizing distances depend on the pipe's design. Increasing these distances or installing a flow conditioner may be necessary to obtain the best accuracy. Fore more information, refer to EN ISO 5167-1.

EN ISO 5167-1 specifies the straight inlet and outlet distances that must be complied with when installing fittings in pipe lines in order to achieve calm flow conditions. The most commonly used elements that could lead to turbulence in the flow are shown below. The related minimum inlet and outlet distances that ensure a calm flow are also specified.

Fluid direction ⇒

Make sure that the measuring conditions at the point of measurement are calm and problem-free.



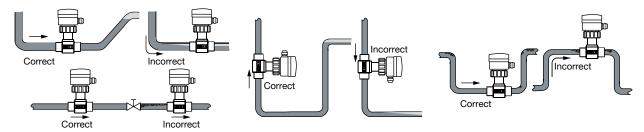
1.) If the valve cannot be mounted after the measuring device, the minimal distances have to be respected.
2.) If an expansion cannot be avoided, the minimal distances have to be respected.

DN = Orifice

Please note minimum flow velocity

The device can be installed in either horizontal or vertical pipes, but following additional conditions should be respected:

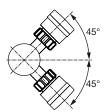
- The pipe always has to be filled with fluid at all times near the device.
- The pipe design must be such that no air bubbles or cavitation can form within the medium near the device at any time.



Pressure and temperature ratings must be respected according to the selected fitting material. The suitable pipe size is selected using the diagram in the chapter "Nominal size selection" of the data sheet Type S020 .

6.2. Mounting options

It is advisable to mount the flowmeter at a 45° angle to the horizontal centre of the pipe to avoid having deposits on the electrodes and false measurements due to air bubbles





7. Product operation

7.1. Measuring principle

The E-shaped magnetic system inside the sensor induces a magnetic field into the fluid, which is perpendicular to the direction of flow. Two electrodes are in galvanic contact with the liquid.

Based on the Faraday law a voltage can be measured between these electrodes once a liquid (min. conductivity of 20 μ S/cm) flows along the pipe. This voltage is proportional to the flow velocity.

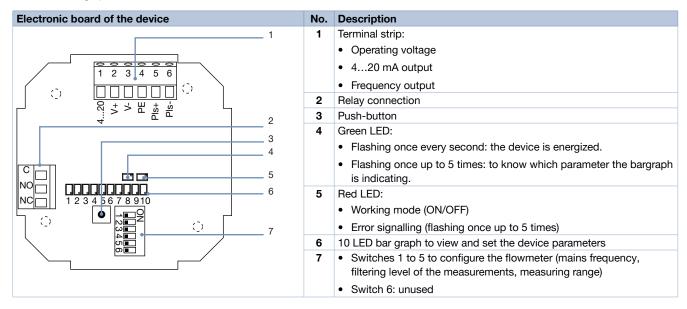
Using the K-factor for the individual pipe diameter the speed of flow is converted into volume per time.



7.2. Functional overview

Display on the electronic board (PCB)

The settings needed for operation are made directly on the printed circuit board by means of 5 switches, a push button, a green LED, a red LED and a bar graph.



The device can be calibrated by means of the K-factor (conversion coefficient), or via the Teach-In function.

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Operating levels

The device has 2 operating levels:

- The Read level
- The Configuration level

Operating level	Functions
Read	This level allows to read:
	the fluid velocity measured by the device.
	the values set for the relay function.
Configuration	This level allows to set the required operation parameters:
	Device using as a flowmeter
	- programming of the full scale
	 selection of a predefined measuring range: 02, 05 or 010 m/s
	 selection by Teach-In: with the actual max. flow velocity of the application
	- 420 mA current output
	- 0240 Hz frequency output
	- relay output: switching mode either window or hysteresis, on low or high switching threshold
	- relay time delay before switching
	- filter
	– alarm:
	 for full scale exceeding with 22 mA and 256 Hz
	 for fault signalling with 22 mA and 0 Hz
	Device using an ON/OFF control
	- flow detection with switching thresholds, defined as a percentage of max. flow rate.
	 adjustment of the full scale of the device accordingly to the customer process full scale.

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8. Product design and assembly

8.1. Product assembly

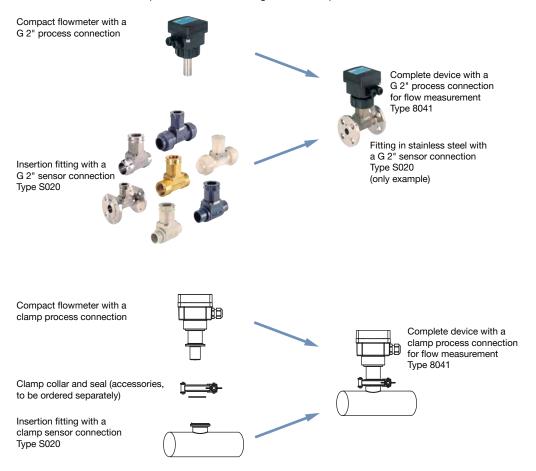
Note:

- The device Type 8041 is installed into a Bürkert Insertion fitting Type S020 and fastened with a union nut.
- The Insertion fitting Type S020 ensures simple installation into pipes from DN 06...DN 400, see data sheet Type S020 ▶ for more information.

The device is equipped with a PVDF or stainless steel measurement sensor which comprises two electrodes and a magnetic system and is available in long or short variant (dependent on the size of the used fitting). The sensor holder is plugged-in to the housing, which contains containing the electronic module.

The connection of the device to the process is made depending on the variant, either by a G 2" nut or a clamp.

The electrical connection is provided via two cable glands on a 6-pin terminal block.



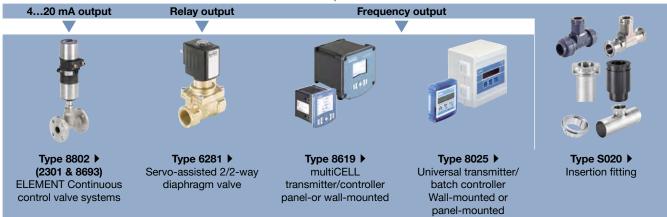


9. Networking and combination with other Bürkert products

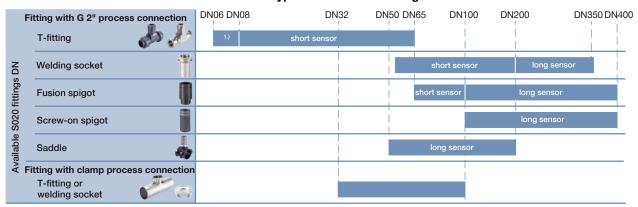
9.1. Networking and combination of the device

Example:





9.2. Combination of the device with available Type S020 Insertion fittings DN



^{1.)} DN06 and DN08: S020 in stainless steel only and 8041 with stainless steel sensor recommended

9.3. Remote transmitters Type 8025 which can be connected to the Type 8041 flowmeter

A remote electronic Type 8025 can be connected to the flowmeter Type 8041. For the selection of the article, see chapter "Remote transmitters Type 8025 which can be connected to the Type 8041 flowmeter" on page 19.



10. Ordering information

10.1. 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

10.2. Recommendation regarding product selection

Flowmeter with G 2" process connection

A complete 8041 flowmeter consists of a 8041 flowmeter with G 2" process connection and a Bürkert Type S020 Insertion fitting with G 2" sensor connection .

See data sheet Type S020 ▶ for more information.

Two different components must be ordered in order to select a complete device. The following information is required:

- Article no. of the desired compact flowmeter with G 2" process connection Type 8041 (see chapter "Flowmeter with G 2" process connection" on page 18)
- Article no. of the selected Type S020 Insertion fitting with G 2" sensor connection (see data sheet Type S020)

Flowmeter with clamp process connection

A complete 8041 flowmeter consists of a 8041 flowmeter with clamp process connection and a Bürkert Type S020 Insertion fitting with clamp sensor connection .

See data sheet Type S020 ▶ for more information.

Four different components must be ordered in order to select a complete device. The following information is required:

- Article no. of the desired flowmeter with clamp process connection Type 8041(see chapter "Flowmeter with clamp process connection" on page 18)
- Article no. of the selected Type S020 Insertion fitting with clamp sensor connection (see data sheet Type S020)
- Article no. of the selected fitting/flowmeter seal, in EPDM or FEP (see chapter "10.5. Ordering chart accessories" on page 19)
- Article no. of the clamp collar (see chapter "10.5. Ordering chart accessories" on page 19)

10.3. 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

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10.4. Ordering chart

Flowmeter with G 2" process connection

Note:

The following variants

- · have at least
 - a FKM process seal
 - an 18...36 V DC operating voltage
- are supplied with an accessories set (article no. 551775) including an EPDM seal and with a relay connection set (article no. 552812).

Further information regarding the sets can be found in chapter "10.5. Ordering chart accessories" on page 19.

Sensor variant	Output	Material		Approval and conformity			Electrical	Article no.
		Housing	Sensor / Earth ring / Electrode	UL	FDA	ECR1935/ 2004 1.)	connection	
Short	Frequency,		PVDF / Stainless steel / Stainless steel	-	Yes	_	2 cable glands M20x1.5	558064 ≒
	relay and 420 mA			UL Recognized				570482 🛱
Long	420 IIIA			_				558065 ≒
	ong			UL Recognized				570483 ∖≕
Short			PVDF / Alloy C22 / Alloy C22	_	_			560751 ≒
Long								560752 ≒
Short		PPA	Stainless steel / – / Stainless steel		Yes	Yes		552779 ≒
				UL Recognized				561606 ≒
Long				_				552780 🖼
			UL Recognized				561607 ≒	

^{1.)} Only if the FKM seal mounted as standard at factory is replaced with the EPDM seal included in the delivery.

Flowmeter with clamp process connection

Note:

The following variants

- have at least an 18...36 V DC operating voltage
- are supplied with an accessories set (article no. 565384) and with a relay connection set (article no. 552812).

Further information regarding the sets can be found in chapter "10.5. Ordering chart accessories" on page 19.

Output					oval and ormity	Electrical connection	Article no.
	Housing	Sensor / Electrode	Fitting/flowmeter seals 1.)	FDA	ECR1935/ 2004 ^{2.)}		
Frequency, relay and 420 mA	PC	Stainless steel / Stainless steel	EPDM or FEP	Yes	-	2 cable glands M20 x 1.5	564688 ≒

^{1.)} Has to be ordered separately.

^{2.)} Only for mounting with EPDM seal



Remote transmitters Type 8025 which can be connected to the Type 8041 flowmeter

Description	Operating voltage	Output	Relay	Electrical connection	Article no.		
Panel-mounted variant							
"Universal", 2 totalizers	1830 V DC	420 mA, pulse	_	Terminal strip	419538 🖼		
			2		419537 ≒		
"Batch", 2 totalizers, 1 flowrate		_			419536 ≒		
Wall-mounted variant							
"Universal", 2 totalizers	1830 V DC	420 mA, pulse	_	3 cable glands	419541 🛱		
			2		419540 ≒		
	115230 V DC		_		419544 ≒		
"Batch", 2 totalizers, 1 flowrate	1830 V DC	_	2	5 cable glands	433740 ≒		

10.5. Ordering chart accessories

Description	Article no.				
For flowmeter with G 2" or clamp process connection					
Set with two cable glands M20 \times 1.5, two neoprene flat seals for cable gland or plug, two screw plugs M20 \times 1.5 and two multi-way seals 2 \times 6 mm	449755 ≒				
Set with two adaptors M20×1.5 /NPT ½", two neoprene flat seals for cable gland or plug and two screw plugs M20×1.5	551782 🛱				
Relay connection set with a terminal strip, a protective cap, a cable tie and a mounting instruction sheet	552812 ≒				
3-point flow calibration certificate 1.)	550676 ≒				
FDA declaration of conformity ²⁾	803724 📜				
For flowmeter with G 2" process connection					
Set with a stopper for unused cable gland $M20 \times 1.5$, a multiway seal 2×6 mm for cable gland, a green FKM seal for the sensor and a mounting instruction sheet	558102 ≒				
Set with a green FKM seal and a black EPDM seal	552111 ≒				
Fastening ring (open) for Type S020 Insertion fitting	619205 ∖≕				
PC union nut for Type S020 Insertion fitting	619204 ≒				
PPA union nut for Type S020 Insertion fitting	440229 ≒				
For flowmeter with clamp process connection					
Set with a stopper for unused cable gland M20×1.5 and a multiway seal 2×6 mm for cable gland	565384 ≒				
1 EPDM fitting/flowmeter seal	730837 🛱				
1 FEP fitting/flowmeter seal	730839 🛱				
Clamp collar	731164 🖼				

^{1.)} Measuring device in combination with a Type S020 Insertion fitting, only for DN \leq 200

^{2.)} For stainless steel or PVDF sensor with FKM or EPDM seal