



Magnetic inductive Insertion flowmeter

- Sensor without moving parts
- Indicates both flow rate and volume
- Simulation of all output signals
- Clean in place (CIP), FDA-compliant materials
- Version with Alloy C22 electrodes







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

Can be combined with



Type 2030

Pneumatically operated 2/2-way diaphragm valve CLASSIC with plastic valve body



Type 2301

Pneumatically operated 2-way Globe Control Valve



Type 8802

ELEMENT continuous control valve systems overview



Type 8644

AirLINE SP electropneumatic automation system

Type description

The electromagnetic flowmeter Type 8045 is made up of an electronic module including a backlit display, operating keys 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 8045 is equipped with a 4...20 mA output, a digital output (pulse output by default). Some versions are equipped with two relay outputs and one digital input. Two independent totalizers allow counting the flow rate.

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 version with a stainless steel sensor can be used in applications with higher pressures (PN 16) and higher temperatures (110 °C). The version with Alloy C22 electrodes has been designed for applications with aggressive fluids (chemicals) and especially sea water applications.



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Type 8045



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rsion: AH Status: RL
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DTS 1000011093 EN Versic
DTS 10



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.

Non	wattad	narte

	the state of the s
Non wetted parts	
Lid	 Variant with flow sensor in PVDF: PC
	 Variant with flow sensor in stainless steel: PSU
Front panel film	Polyester
Cover	 Variant with flow sensor in PVDF: PC
	 Variant with flow sensor in stainless steel: back PPA (glass fibre reinforced)
Housing	 Variant with flow sensor in PVDF: PC (glass fibre reinforced)
	 Variant with flow sensor in stainless steel: back PPA (glass fibre reinforced)
Screw	Stainless steel
Union nut	 Variant with flow sensor in PVDF: PC
	 Variant with flow sensor in stainless steel: back PPA (glass fibre reinforced)
Mounting ring	Polysulphone, glass fibre reinforced
Seal	NBR, silicone
Armature	Stainless steel 1.4404/316L (for flowmeter with clamp process connection, over the clamp)
Cable gland	PA with neoprene seal
Wetted parts	
Clamp	Stainless steel 1.4404/316L
Sensor armature	• PVDF
	Stainless steel 1.4404/316L
Electrode holder	Only with variant with flow sensor in stainless steel: PEEK (conform to FDA)
Electrode	 Stainless steel 1 4404/316l

Electrode Stainless steel 1.4404/316L

Alloy C22

Only with variant with flow sensor in PVDF: Earth ring

Stainless steel 1.4404/316L

Alloy C22

Seal • For flowmeter with G 2" process connection:

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 20.)

- EPDM

Surface quality For flowmeter with clamp process connection: Ra $< 0.8 \mu m$ • For flowmeter with G 2" process connection: Any pipe from DN 06...DN 400 which is fitted with Compatibility Bürkert Type S020 Insertion fitting with G 2" sensor connection.

• For flowmeter with clamp process connection: Any pipe from DN 32...DN 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 .

Pipe diameter • For flowmeter with G 2" process connection: DN 06...DN 400 • For flowmeter with clamp process connection: DN 32...DN 100

Dimensions Further information can be found in chapter "4. Dimensions" on page 9. Measuring element Electrodes Measuring principle Electromagnetic Measuring range • Flow rate: 0.4...75000 I/min

• Flow velocity: 0.2...10 m/s

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Performance data	
Measurement deviation	 Teach-In: ±0.5 % of the measured value ^{1,3} 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	≤300 mA (at 18 V DC)
Input	DI1
	Supply voltage: 1836 V DC
	 Input impedance: 15 kΩ
	min. pulse duration: 200 ms
	Galvanic insulation, protected against polarity reversals of DC and voltage spikes
Output	Transistor (digital output DO1):
	 Type: NPN or PNP (wiring dependent), open collector
	 Function: pulse output (by default), user configurable
	- 0250 Hz, 536 V DC, 100 mA max.
	 Duty cycle (pulse duration/period) if frequency >2 Hz: ½
	Min. pulse duration if frequency < 2 Hz: 250 ms
	Galvanic insulation, protected against polarity reversals of DC and short-circuits
	· · · · · · · · · · · · · · · · · · ·
	Relay (digital outputs DO2 and DO3): Output DO2 and DO3):
	- 2 normally open, freely adjustable (hysteresis by default)
	 Non UL recognized device: 250 V AC/3 A or 40 V DC/3 A (resistive load)
	 UL recognized device: 30 V AC/42 V_{peak}/3 A or 60 V DC/1 A
	 Max. cutting power of 750 VA (resistive load)
	 Life span of min. 100000 cycles
	Current (analogue output AO1):
	- 420 mA
	 Sink or source (by wiring)
	 22 mA to indicate a fault
	– Max. loop impedance: 1300 Ω at 36 V DC; 1000 Ω at 30 V DC; 700 Ω at 24 V DC; 450 Ω at 18 V DC
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+110 °C (+5+232 °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 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

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Process/Pipe connection & communication			
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		
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 (for stainless steel or PVDF sensor with FKM or EPDM seal)		
	ECR1935/2004 declaration (only for stainless steel sensor with EPDM seal)		
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 and lid 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		
	 cable glands mounted and tightened with blind plug on unused cable glands Category I according to UL/EN 61010-1 		

^{1.)} Under reference conditions i.e. measuring fluid = water, ambient and water temperature = 20 °C (68 °F), while maintaining the minimum inlet and outlet distances and the appropriate internal diameters of the pipes.

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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 Al °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

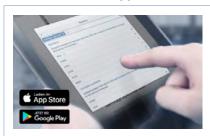
Conformity	Description	
FDA - Code of Federal Regulations (valid for the variable code PL02, PL03) Only devices with stainless steel or PVDF sensor and FKM or EPDM seals are compliant with the Regulations published by the FDA (Food and Drug Administration, USA) according to the manufar		
77	EC Regulation 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



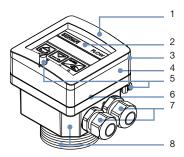
Bürkert resistApp - Chemical resistance chart

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

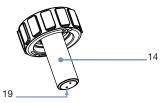
Flowmeter with



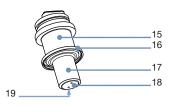
- G 2" process connection and sensor holder in PVDF or



- 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	Lid	PC for variant with flow sensor in PVDF	
		PSU for variant with flow sensor in stainless steel	
2	Front panel foil	Polyester	
3	Seal	Silicone	
4	Cover	PC for variant with flow sensor in PVDF	
		Black PPA, glass fibre reinforced for variant with flow sensor in stainless steel	
5	Screws	Stainless steel	
6	Seal	NBR	
7	Cable glands	PA with neoprene seal	
8	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	
9	Nut	PC for variant with flow sensor in PVDF	
		 PPA glass fibre reinforced for variant with flow sensor stainless steel 	
10	Mounting ring (open)	Polysulphone, glass fibre reinforced	
11	Seal	FKM (approved FDA)	
		EPDM included, but not mounted (conform to FDA)	
12	Sensor holder	PVDF	
13	Earth ring	Stainless steel 1.4404/316L or	
		Alloy C22	
14	Sensor holder	Stainless steel 1.4404/316L	
15	Holder	Stainless steel 1.4404/316L	
16	Clamp	Stainless steel 1.4404/316L	
17	Sensor holder	Stainless steel 1.4404/316L	
18	Electrode holder	PEEK (conform to FDA)	
19	Electrodes	Stainless steel 1.4404/316L or	
		Alloy C22	

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4. Dimensions

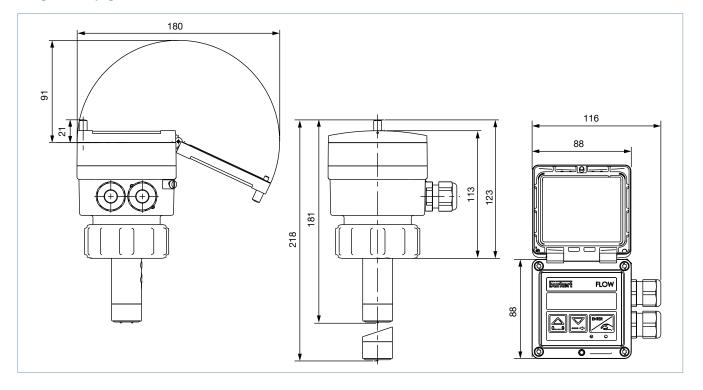
4.1. Flowmeter

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 17.

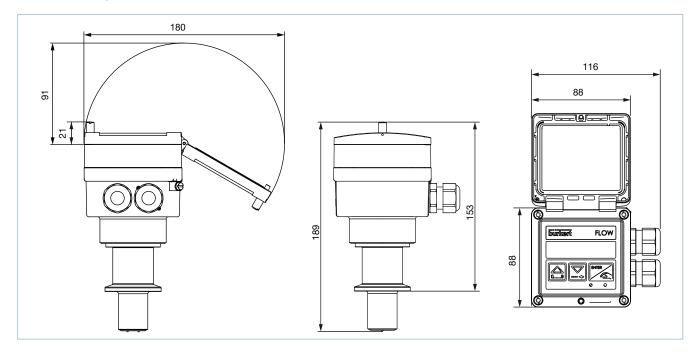




With clamp process connection

Note:

Dimensions in mm, unless otherwise stated

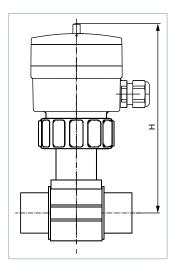


4.2. Flowmeter installed in an Insertion fitting Type S020

With G 2" process connection

Note:

Dimensions in mm, unless otherwise stated



DN	H			
	T-Fitting	Saddle	Plastic spigot	Metal spigot
06	182	_	_	-
80	182	_	_	-
15	187	-	-	-
20	185	_	-	-
25	185	_	_	-
32	188	_	_	_
40	192	_	_	188
50	198	223	_	193
65	198	222	206	199
80	_	226	212	204
100	_	231	219	214
110	_	227	_	-
125	_	234	254	225
150	_	244	261	236
180	_	268	_	-
200	_	280	282	257
250	_	_	300	317
300	_	-	312	336
350	_	-	325	348
400	_	-	340	-

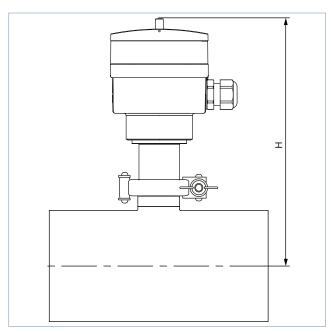
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With clamp process connection

Note:

Dimensions in mm, unless otherwise stated



DN	Н
	T-Fitting
32	200
40	205
50	210
65	218
80	224
100	230

5. Performance specifications

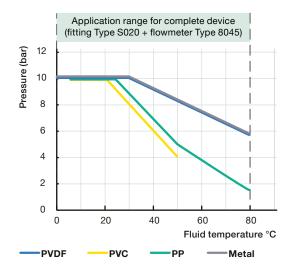
5.1. Pressure temperature diagram

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.

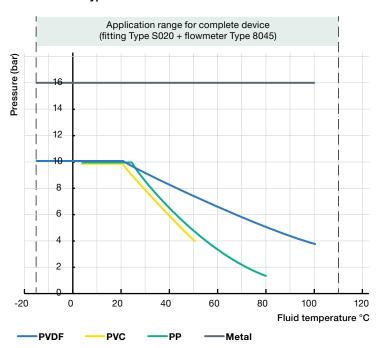




Flowmeter with a stainless steel sensor

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

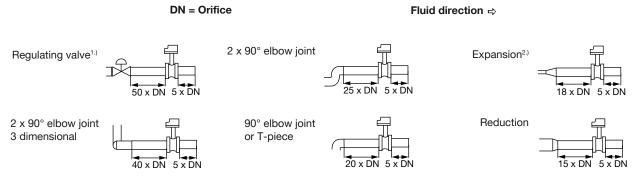
6.1. Installation notes

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.

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



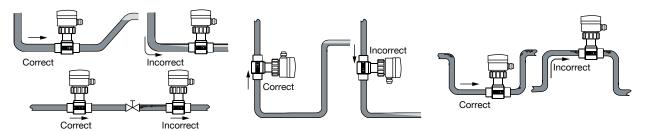
- 1.) If the valve cannot be mounted after the measuring device, the minimal distances have to be respected.
- 2.) If an expansion cannot be avoided, the minimal distances have to be respected.

Please note minimum flow velocity



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

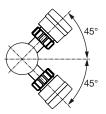
- The pipe always has to be filled with fluid at all times near the device.
- · The pipe design must be such that no air bubbles or cavitation can form within the medium near the device at any time.



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.



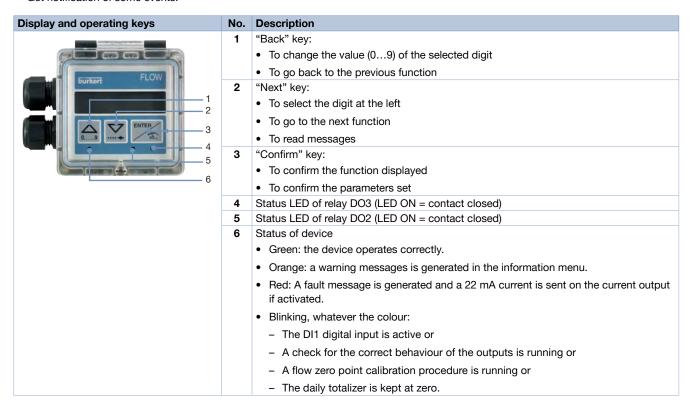


7.2. Functional overview

Display and operating keys

The display is used to:

- Read the value of certain parameters e.g. the measured flow rate, the main totalizer
- Set parameters of the device by means of 3 keys
- · Read the configuration of the device
- · Get notification of some events.



The device can be calibrated by means of the K-factor (conversion coefficient) of the fitting used, or via the Teach-In function. User adjustments, such as engineering units, output and filter are carried out on site.

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Operating levels

The device has 2 operating levels:

- The process level
- The configuration level, which comprises the parameters, the test and the information menus

Operating level	Functions					
Process	This level allows:					
	to read					
	- the value of the measured flow					
	- the value of the 420 mA output					
	 the value of the main totalizer 					
	 the value of the daily totalizer 					
	to reset the daily totalizer					
	to access to the parameters, test and information menus of the configuration level					
Configuration -	This level allows					
parameters menu	to set the required operation parameters:					
	- language					
	- engineering units (international measuring units)					
	- K factor/Teach function					
	- 420-mA-current output (AO1)					
	- detection of flow direction possible					
	- transistor output (DO1)					
	- 2 relays (DO2 and DO3 - if equipped)					
	- ON/OFF digital input (DI1 - if equipped)					
	- filter (damping)					
	 resetting both totalizers 					
	 electric network frequency 					
	- low flow "Cut Off"					
0 " "	- brightness of the display (backlight)					
Configuration - test menu	This level allows					
menu	to adjust the Offset and Span of the 420 mA current output					
	to calibrate the flow zero point of the device to check the correct energing of the cutoute					
	to check the correct operating of the outputs					
	to set the coefficient Kw of the flow sensor to adjust the device accuracy					
Configuration	to set the flow rate range outside which a warning message is generated This level allows to read the fault and warning messages generated.					
Configuration - Information menu	This level allows to read the fault and warning messages generated					

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8. Product design and assembly

8.1. Product assembly

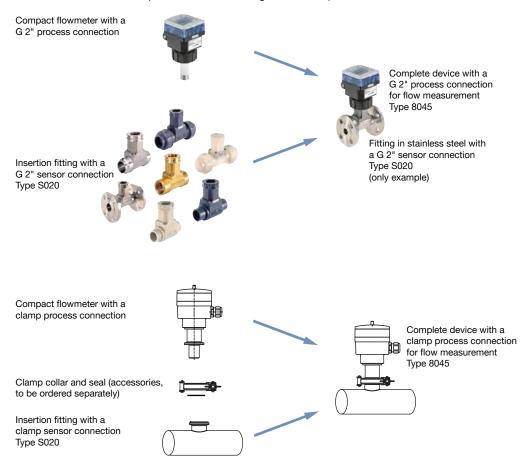
Note:

- The device Type 8045 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.



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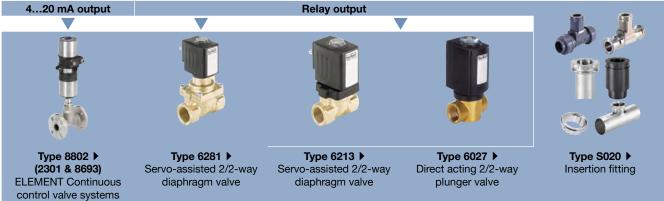


9. Networking and combination with other Bürkert products

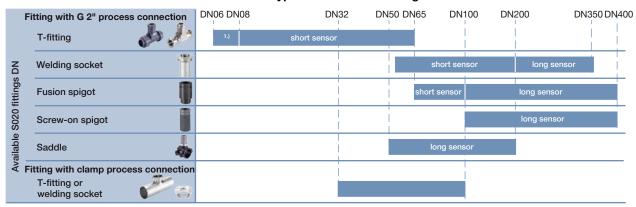
9.1. Networking and combination of the device

Example:





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



^{1.)} DN06 and DN08: S020 in stainless steel only and 8045 with stainless steel sensor recommended



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 8045 flowmeter consists of a 8045 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 8045 (see chapter "Flowmeter with G 2" process connection" on page 19
- 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 8045 flowmeter consists of a 8045 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 8045 (see chapter "Flowmeter with clamp process connection" on page 20)
- 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 20)
- Article no. of the clamp collar (see chapter "10.5. Ordering chart accessories" on page 20)

10.3. Bürkert product filter



Bürkert product filter - Get quickly to the right product

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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
 - a 4...20 mA current output (AO1) and
 - a digital output (DO1)
- are supplied with an accessories set (article no. 551775) including an EPDM seal.

Further information regarding the sets can be found in chapter "10.5. Ordering chart accessories" on page 20.

Sensor	Sensor Input Output		Material		Approval and conformity			Electrical	Article no.
variant			Housing	Sensor / Earth ring / Electrode	UL	FDA	ECR1935/ 2004 1.)	connection	
Short	-	-	PC	PVDF / Stainless steel / Stainless steel	_	Yes	_	2 cable glands M20x1.5	426498 📜
					UL Recognized				570470 📜
Long					_				426499 📜
					UL Recognized				570471
Short				PVDF / Alloy C22 / Alloy C22	_	_			558675 ≒
					UL Recognized				570484 ≒
Long					_				558676 ≒
					UL Recognized				570485 ≒
Short	1 digital	2 relay outputs (DO2, DO3)		PVDF / Stainless steel / Stainless steel	_	Yes			426506 ≒
	input (DI1)				UL Recognized				570472 ≒
Long					_				426507 ≒
					UL Recognized				570473 ≒
Short	_	-	PPA	Stainless steel / - / Stainless steel	_	-	Yes		449670 ≒
					UL Recognized				570478 🏋
Long					_				449672 🏋
					UL Recognized				570480 ≒
Short	1 digital input (DI1) 2 relay outputs (DO2, DO3)				_				449671 ≒
					UL Recognized				570479 📜
Long					_				449673 ≒
				UL Recognized				570481 🛱	

^{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:

All these following variants

- have at least
 - a 18...36 V DC operating voltage
 - a 4...20 mA current output (AO1) and
 - a digital output (DO1)
- are supplied with an accessories set (article no. 565384).

Further information regarding the sets can be found in chapter "10.5. Ordering chart accessories" on page 20.

Input	Output	Material				oval and ormity	Electrical connection	Article no.
		Housing	Sensor / Electrode	Fitting/flowmeter seals 1.)	FDA	ECR1935/ 2004 ^{2.)}		
_	-	PPA	Stainless steel / Stainless steel	EPDM or FEP	Yes	Yes	2 cable glands M20 x 1.5	564797 ≒
1 digital input (DI1)	2 relay outputs (DO2, DO3)							564798 ≒

^{1.)} Must be ordered separately.

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 \times 1.5 /NPT $\frac{1}{2}$, two neoprene flat seals for cable gland or plug and two screw plugs M20 \times 1.5	551782 🛱				
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/measuring device seal	730837 🛱				
1 FEP fitting/measuring device seal	730839 🖼				
Clamp collar	731164				

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

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

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