



Insertion magnetic inductive 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 body	▶
	Type 2301 Pneumatically operated 2 way Globe Control Valve	▶
	Type 8802 ELEMENT continuous control valve systems - overview	▶
	Type 8644 Remote Process Actuation Control System AirLINE	▶

Type description

The electromagnetic flowmeter 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.

It 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 Type S020 Insertion fitting.

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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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

Please make sure the device materials are compatible with the fluid you are using.

Detailed information can be found in chapter **"3.1. Chemical Resistance Chart – Bürkert resistApp"** on page 6.

Non wetted parts

Housing, cover, nut	<ul style="list-style-type: none"> Version with flow sensor in PVDF: PC (glass fibre reinforced for housing) Version with flow sensor in stainless steel: back PPA (glass fibre reinforced)
Seal	NBR
Lid	<ul style="list-style-type: none"> Version with flow sensor in PVDF: PC Version with flow sensor in stainless steel: PSU
Seal	Silicone
Front panel foil	Polyester
Holder	Stainless steel 1.4404/316L (for flowmeter with clamp process connection, over the clamp)
Screws	Stainless steel
Cable glands	PA with neoprene seal
Mounting ring	Polysulphone, glass fibre reinforced

Wetted parts

Seals	<ul style="list-style-type: none"> For flowmeter with G 2" process connection: <ul style="list-style-type: none"> FKM EPDM (conform to FDA) For flowmeter with clamp process connection: (to be ordered separately, detailed information can be found in chapter "10.5. Ordering chart accessories" on page 19.) <ul style="list-style-type: none"> EPDM FEP
Clamp	Stainless steel 1.4404/316L
Electrodes	<ul style="list-style-type: none"> Stainless steel 1.4404/316L Alloy C22 PVDF
Sensor holder	<ul style="list-style-type: none"> Stainless steel 1.4404/316L
Earth ring	Only with version with flow sensor in PVDF: <ul style="list-style-type: none"> Stainless steel 1.4404/316L Alloy C22
Electrode holder	Only with version with flow sensor in stainless steel: PEEK (conform to FDA)
Dimensions	Detailed information can be found in chapter "4. Dimensions" on page 8.
Surface quality	For clamp process connection: Ra < 0.8 µm
Measuring principle	Electromagnetic
Sensor element	Electrodes
Compatibility	<ul style="list-style-type: none"> For flowmeter with G 2" process connection: Any pipe from DN 06...DN 400 which is fitted with Bürkert 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 S020 Insertion fitting with clamp sensor connection. <p>For the selection of the nominal diameter of the Insertion fittings, see data sheet Type S020 ►.</p>
Pipe diameter	<ul style="list-style-type: none"> For flowmeter with G 2" process connection: DN 06...DN 400 For flowmeter with clamp process connection: DN 32...DN 100
Measuring range	<ul style="list-style-type: none"> Flow rate: 0.4...75000 l/min Flow velocity: 0.2...10 m/s

Performance data

Measurement deviation	<ul style="list-style-type: none"> Teach-In: ± 0.5 % of the measured value¹⁾ at Teach-In flow rate value Standard K-factor: ± 3.5 % of the measured value¹⁾
Linearity	± 0.5 % of full scale ¹⁾

Repeatability	± 0.25 % of the measured value ¹⁾
4...20 mA output uncertainty	± 1 % of range
Electrical data	
Operating voltage	18...36 V DC ± 0.5 %, filtered and regulated (3 wires)
Power source (not supplied)	Limited power source according to UL/EN 60950-1 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)	<ul style="list-style-type: none"> Supply voltage: 18...36 V DC Input impedance: 15 kΩ min. pulse duration: 200 ms Galvanic insulation, protected against polarity reversals of DC and voltage spikes
Outputs	<ul style="list-style-type: none"> Current (analogue output AO1): <ul style="list-style-type: none"> 4...20 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 Transistor (digital output DO1): <ul style="list-style-type: none"> Type: NPN or PNP (wiring dependent), open collector Function: pulse output (by default), user configurable 0...250 Hz, 5...36 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): <ul style="list-style-type: none"> 2 normally open, freely adjustable (hysteresis by default) Non UL recognized device: 250 V AC/3 A or 40 V DC/2 A (resistive load) UL recognized device: 30 V AC/42 V_{peak}/2 A or 60 V DC/1 A Max. cutting power of 750 VA (resistive load) Life span of min. 100000 cycles
Voltage supply cable	<ul style="list-style-type: none"> Shielded External diameter (cable): 6...12 mm (1 cable per cable gland) or 4...5 mm when using a multi-way seal (2 cables per cable gland) Cross section of wires: 0.5...1.5 mm²
Medium data	
Fluid temperature	<ul style="list-style-type: none"> Version with flow sensor in PVDF: 0...+80 °C (+32...+176 °F) (depends on fitting) Version with flow sensor in stainless steel: -15...+110 °C (+5...+232 °F) (depends on fitting) <p>Detailed 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 ►.</p>
Fluid pressure	<ul style="list-style-type: none"> Version with flow sensor in PVDF: max. PN 10 (145.1 PSI) Version with flow sensor in stainless steel: <ul style="list-style-type: none"> Max. PN 10 (145.1 PSI) (with plastic fitting) Max. PN 16 (232.16 PSI) (with metal fitting) <p>Detailed 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 ►.</p>
Conductivity	Min. 20 µS/cm
Viscosity	< 1000 mPa.s
Process/Port connection & communication	
Process connection	<ul style="list-style-type: none"> 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. <p>See data sheet Type S020 ► for more information.</p>
Electrical connection	2 cable glands M20 × 1.5

Approvals and certificates

Standards

Degree of protection^{2.)} according to IEC/EN 60529 IP65 under the following conditions: device wired, cover screwed tight and cable glands mounted and tightened or with blind plug if not used

Directives

CE directives The applied standards, which verify conformity with the EU Directives, can be found on the EU Type Examination Certificate and/or the EU Declaration of conformity (if applicable).

Pressure Equipment Directive Complying with Article 4, Paragraph 1 of 2014/68/EU directive
Detailed information on the pressure equipment directive can be found in chapter **"2.2. Pressure Equipment Directive"** on page 6.

Certificate

- 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)

Certification UL-Recognized for US and Canada

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 conditions 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)

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 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.

2.) Not evaluated by UL

2. Approvals

2.1. Certification UL

Certificate	Description
	UL-Recognized for USA and Canada Products are UL-certified products and comply also with the following standards: <ul style="list-style-type: none"> • UL 61010-1 • CAN/CSA-C22.2 No.61010-1

2.2. Pressure Equipment Directive

The device conforms to Article 4, Paragraph 1 of the Pressure Equipment Directive 2014/68/EU under the following conditions:

Device used on a pipe

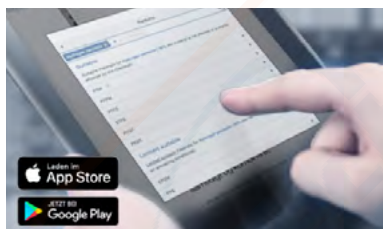
Note:

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

Type of fluid	Conditions
Fluid group 1, Article 4, Paragraph 1.c.i	$DN \leq 25$
Fluid group 2, Article 4, Paragraph 1.c.i	$DN \leq 32$ or $PS \cdot DN \leq 1000$
Fluid group 1, Article 4, Paragraph 1.c.ii	$DN \leq 25$ or $PS \cdot DN \leq 2000$
Fluid group 2, Article 4, Paragraph 1.c.ii	$DN \leq 200$ or $PS \leq 10$ or $PS \cdot DN \leq 5000$

3. Materials

3.1. Chemical Resistance Chart – Bürkert resistApp



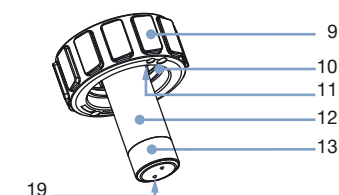
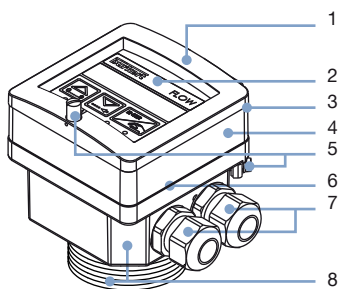
Bürkert resistApp – Chemical Resistance Chart

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.

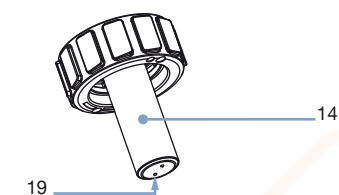
[Start Chemical Resistance Check](#)

3.2. Material specifications

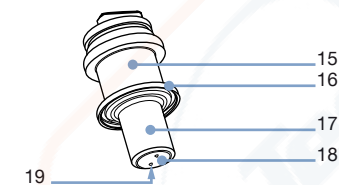
Flowmeter with



- 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	<ul style="list-style-type: none"> PC for version with flow sensor in PVDF PSU for version with flow sensor in stainless steel
2	Front panel foil	Polyester
3	Seal	Silicone
4	Cover	<ul style="list-style-type: none"> PC for version with flow sensor in PVDF Black PPA, glass fibre reinforced for version with flow sensor in stainless steel
5	Screws	Stainless steel
6	Seal	NBR
7	Cable glands	PA with neoprene seal
8	Housing	<ul style="list-style-type: none"> PC, glass fibre reinforced for version with flow sensor in PVDF Black PPA, glass fibre reinforced for version with flow sensor in stainless steel
9	Nut	<ul style="list-style-type: none"> PC for version with flow sensor in PVDF PPA glass fibre reinforced for version with flow sensor in stainless steel
10	Mounting ring (open)	Polysulphone, glass fibre reinforced
11	Seal	<ul style="list-style-type: none"> FKM (approved FDA) EPDM included, but not mounted (conform to FDA)
12	Sensor holder	PVDF
13	Earth ring	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Stainless steel 1.4404/316L or Alloy C22

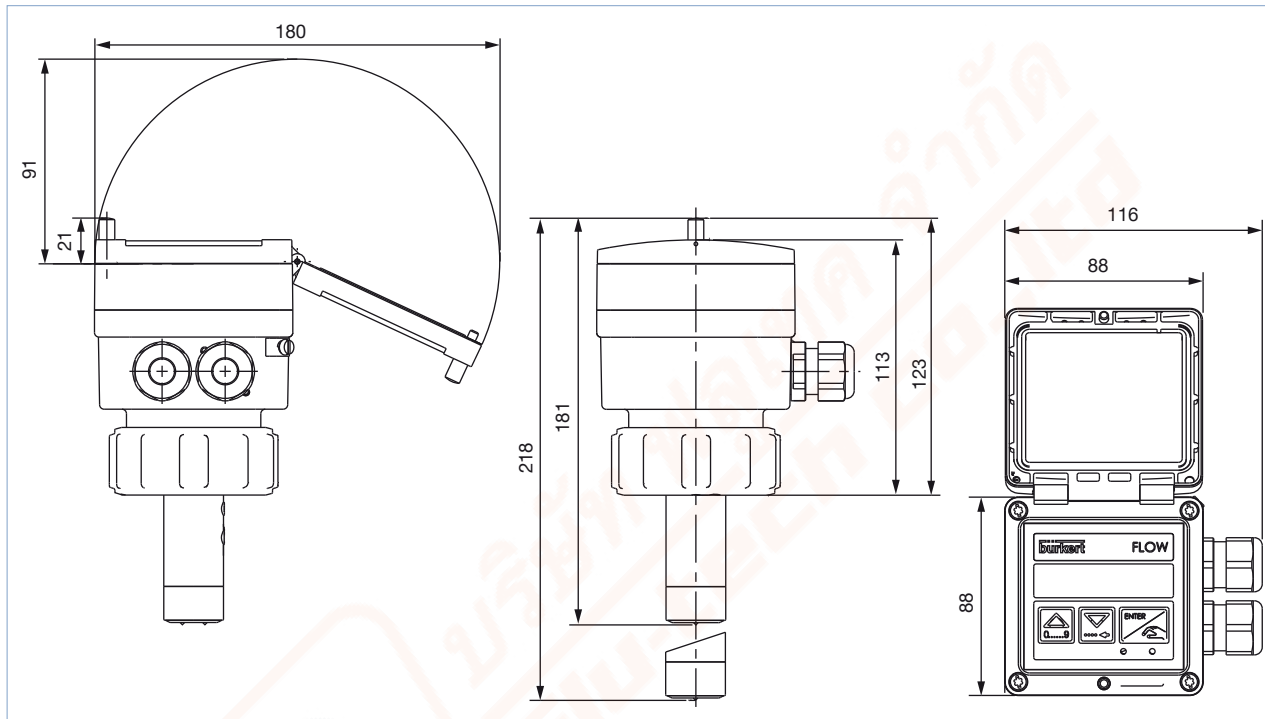
4. Dimensions

4.1. Insertion flowmeter with G 2" process connection

Note:

- Dimensions in mm
- The length of the sensor finger depends on the fitting used.

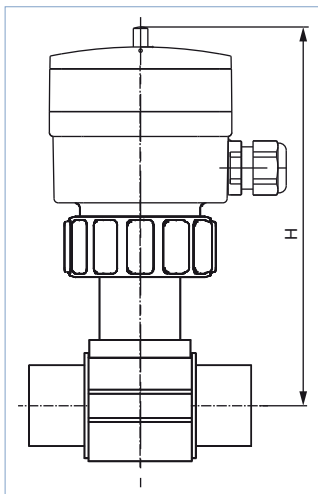
See **data sheet Type S020** ► for more information or chapter **"9.2. Combination of the flowmeter with available S020 Insertion fittings DN"** on page 16.



4.2. Insertion flowmeter with G 2" process connection installed in a S020 fitting

Note:

Dimensions in mm

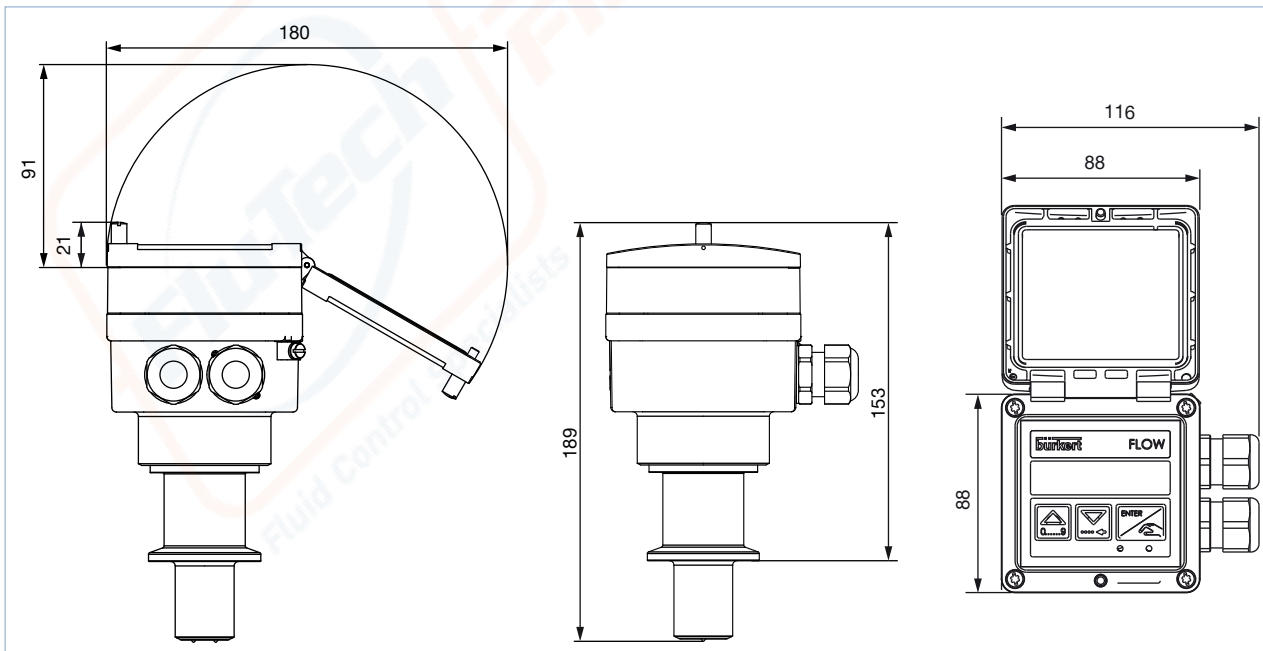


DN	H			
	T-Fitting	Saddle	Plastic spigot	Metal spigot
06	182	–	–	–
08	182	–	–	–
15	187	–	–	–
20	185	–	–	–
25	185	–	–	–
32	188	–	–	–
40	192	–	–	188
50	198	223	–	193
65	198	222	206	199
80	–	226	212	204
100	–	231	219	214
110	–	227	–	–
125	–	234	254	225
150	–	244	261	236
180	–	268	–	–
200	–	280	282	257
250	–	–	300	317
300	–	–	312	336
350	–	–	325	348
400	–	–	340	–

4.3. Insertion flowmeter with clamp process connection

Note:

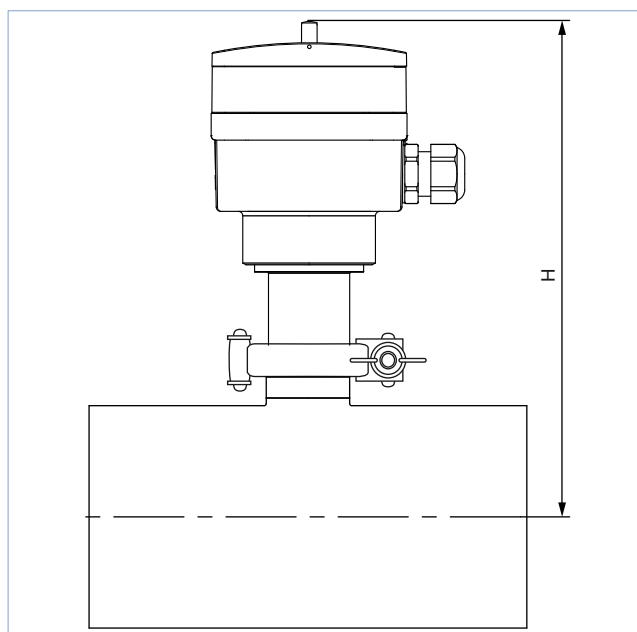
Dimensions in mm



4.4. Insertion flowmeter with clamp process connection installed in a S020 fitting

Note:

Dimensions in mm



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

5. Performance specifications

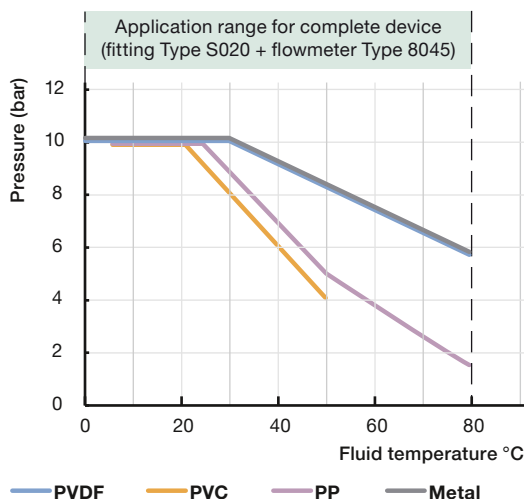
5.1. Pressure temperature diagram

Insertion flowmeter with a PVDF sensor

Note:

Please be aware of the fluid pressure/temperature dependence according to the respective fitting + flowmeter material as shown in the diagrams.

See **data sheet Type S020** ►.

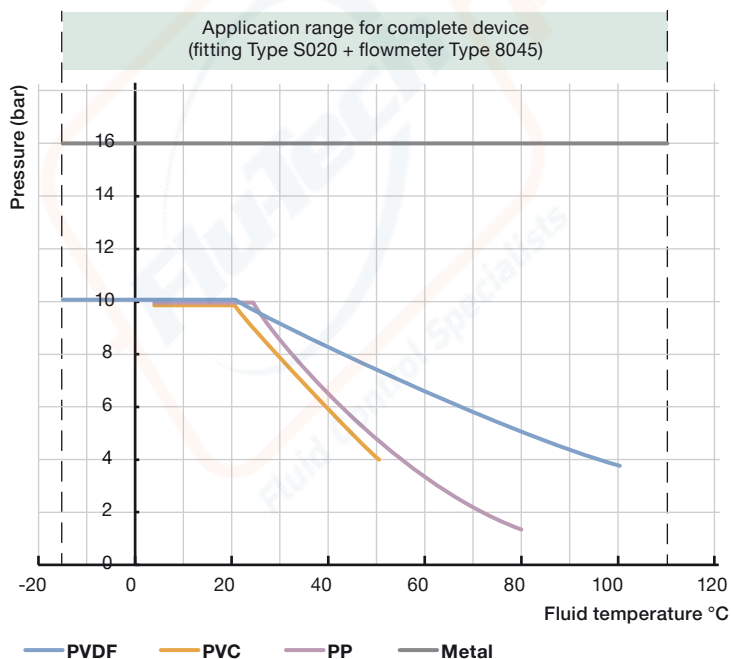


Insertion flowmeter with a stainless steel sensor

Note:

Please be aware of the fluid pressure/temperature dependence according to the respective fitting + flowmeter material as shown in the diagrams.

See **data sheet Type S020** ►.



6. Product installation

6.1. Installation notes

Note:

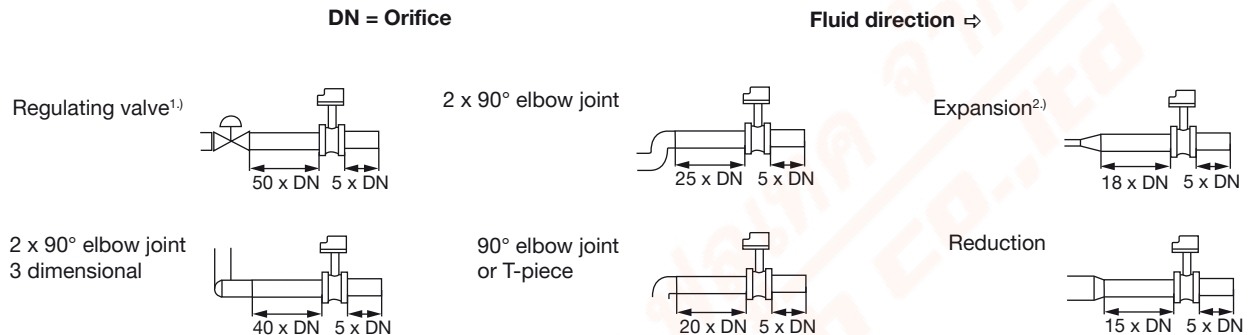
The flowmeter is not designed for gas and steam flow measurement.

Minimum straight upstream and downstream distances must be observed. According to the pipe's design, necessary distances can be bigger or use a flow conditioner to obtain the best accuracy.

For more information, please 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 important layouts that could lead to turbulence in the flow are shown below, together with the associated specified minimum inlet and outlet distances.

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



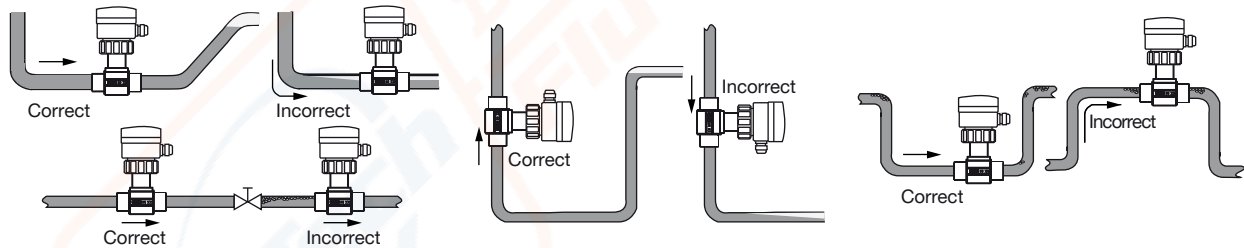
1.) If the valve cannot be mounted after the measuring device, the minimal distances have to be respected.

2.) If an expansion cannot be avoided, the minimal distances have to be respected.

Please note minimum flow velocity

The flowmeter can be installed into either horizontal or vertical pipes.

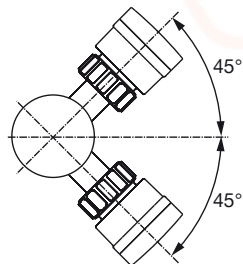
Important criteria for this are; ensure that the measurement pipe is fully filled and that the measurement pipe is free of bubbles.



Pressure and temperature ratings must be respected according to the selected fitting material. The suitable pipe size is selected using the diagram for selecting the nominal diameter of the fitting, see **data sheet Type S020** ▶ for more information.

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



Visit product website ▶

12 | 20

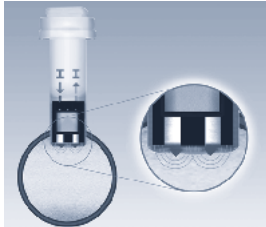
7. Product operation

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 $\mu\text{S}/\text{cm}$) 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.

Display and operating keys	No.	Description
	1	“Back” key: <ul style="list-style-type: none"> • To change the value (0...9) of the selected digit • To go back to the previous function
	2	“Next” key: <ul style="list-style-type: none"> • To select the digit at the left • To go to the next function • To read messages
	3	“Confirm” key: <ul style="list-style-type: none"> • To confirm the function displayed • To confirm the parameters set
	4	Status LED of relay DO3 (LED ON = contact closed)
	5	Status LED of relay DO2 (LED ON = contact closed)
	6	Status of device <ul style="list-style-type: none"> • Green: the device operates correctly. • Orange: a warning messages is generated in the information menu. • Red: A fault message is generated and a 22 mA current is sent on the current output if activated. • Blinking, whatever the colour: <ul style="list-style-type: none"> – The DI1 digital input is active or – A check for the correct behaviour of the outputs is running or – A flow zero point calibration procedure is running or – The daily totalizer is kept at zero

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.

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	<ul style="list-style-type: none"> • Indication of <ul style="list-style-type: none"> – The value of the measured flow – The value of the 4...20 mA output – The value of the main totalizer – The value of the daily totalizer • Reset the daily totalizer • Access to the Parameters, Test and Information menus of the Configuration level
Configuration - parameters menu	To make the settings needed for operation: <ul style="list-style-type: none"> • Language • Engineering units (International measuring units) • K-factor/Teach-In function • 4...20-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) • Reset both totalizers • Electric network frequency • Low flow "Cut Off" • Brightness of the display (backlight)
Configuration - test menu	<ul style="list-style-type: none"> • To adjust the Offset and Span of the 4...20 mA current output • To calibrate the flow zero point of the device • To check the correct operating of the outputs • To set the coefficient Kw of the flow sensor to adjust the device accuracy • To set the flow rate range outside which a warning message is generated
Configuration - Information menu	To read the fault and warning messages generated

8. Product design and assembly

8.1. Product assembly

Note:

- The 8045 flowmeter can easily be installed into any Bürkert Insertion fitting system (S020) by just fixing the main nut.
- The S020 Insertion fitting 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 version (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 version, either by a G 2" nut or a clamp.

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

Compact flowmeter with a
G 2" process connection



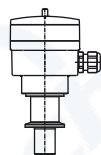
Insertion fitting with a
G 2" sensor connection
Type S020



Complete device with a
G 2" process connection
for flow measurement
Type 8045

Fitting in stainless steel with
a G 2" sensor connection
Type S020
(only example)

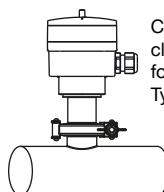
Compact flowmeter with a
clamp process connection



Clamp collar and seal (accessories,
to be ordered separately)



Insertion fitting with a
clamp sensor connection
Type S020

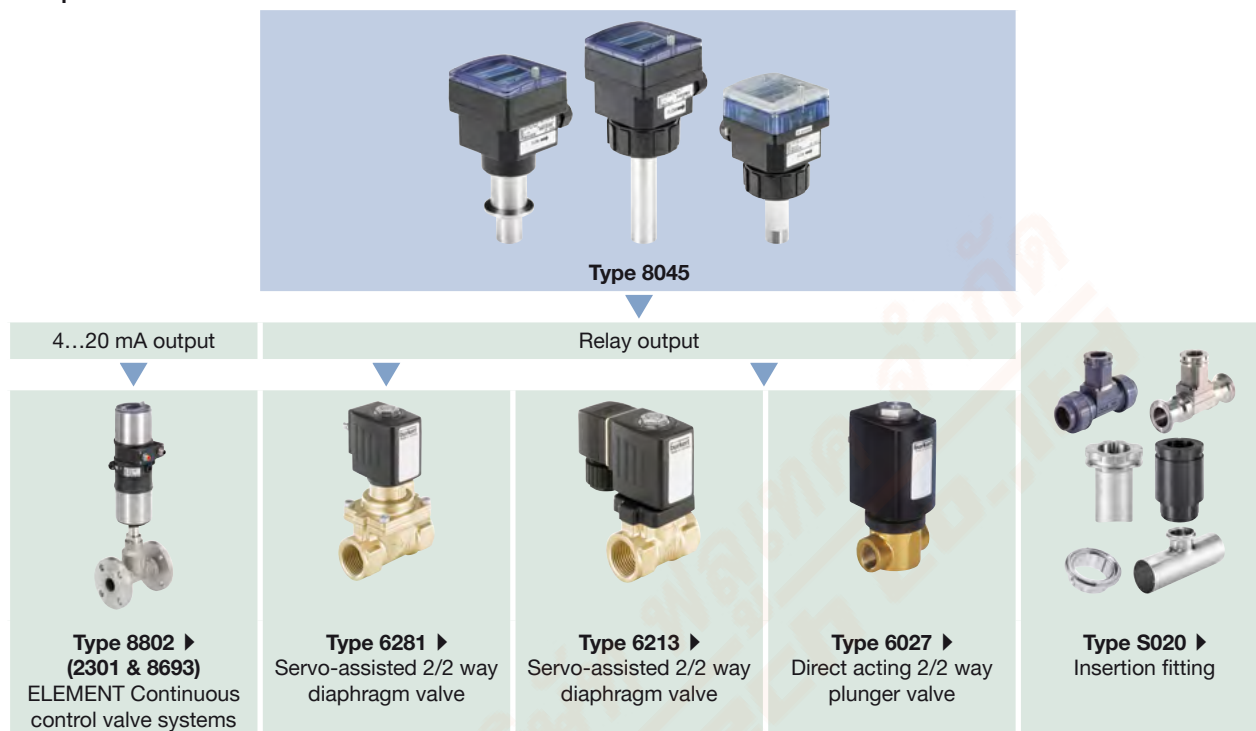


Complete device with a
clamp process connection
for flow measurement
Type 8045

9. Networking and combination with other Bürkert products

9.1. Networking and combination of the flowmeter with other Bürkert products

Example:



10. Ordering information

10.1. Bürkert eShop – Easy ordering and quick delivery



Bürkert eShop – Easy ordering and fast 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

Insertion flowmeter with G 2" process connection

A complete 8045 flowmeter consists of a 8045 flowmeter with G 2" process connection and a Bürkert 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 [“Insertion flowmeter with G 2" process connection” on page 18](#))
- **Article no.** of the selected S020 Insertion fitting with G 2" sensor connection (see [data sheet Type S020](#) ►)

Insertion flowmeter with clamp process connection

A complete 8045 flowmeter consists of a 8045 flowmeter with clamp process connection and a Bürkert 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 [“Insertion flowmeter with clamp process connection” on page 18](#))
- **Article no.** of the selected 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



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10.4. Ordering chart

Insertion flowmeter with G 2" process connection

Note:

All these following versions have

- A FKM process seal (but one EPDM seal is contained in the kit 551775 which is supplied with each flowmeter.)
- An 18...36 V DC operating voltage
- As minimum
 - A 4...20 mA current output (AO1) and
 - A digital output (DO1)

Digital input	Relay output	Materials		Sensor version	Certificates		UL certification	Electrical connection	Article no.
		Housing	Sensor / Earth ring / Electrode		FDA	ECR1935/2004 ^{1.)}			
–	–	PC	PVDF / Stainless steel / Stainless steel	Short	Yes	–	–	2 cable glands M20 x 1.5	426498
				Long			UL-Recognized		570470
			PVDF / Alloy C22	Short			–		426499
				Long			UL-Recognized		570471
				Short			–		558675
				Long			UL-Recognized		570484
1 (DI1)	2 (DO2, DO3)	PPA	Stainless steel / – / Stainless steel	Short	Yes	–	–		558676
				Long			UL-Recognized		570485
			Stainless steel / – / Stainless steel	Short			–		426506
				Long			UL-Recognized		570472
				Short			–		426507
				Long			UL-Recognized		570473
1 (DI1)	2 (DO2, DO3)	PPA	Stainless steel / – / Stainless steel	Short	Yes	–	–		449670
				Long			UL-Recognized		570478
			Stainless steel / – / Stainless steel	Short			–		449672
				Long			UL-Recognized		570480
				Short			–		449671
				Long			UL-Recognized		570479
1 (DI1)	2 (DO2, DO3)	PPA	Stainless steel / – / Stainless steel	Short	Yes	–	–		449673
				Long			UL-Recognized		570481
			Stainless steel / – / Stainless steel	Short			–		449674
				Long			UL-Recognized		570482
				Short			–		449675
				Long			UL-Recognized		570483

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

Insertion flowmeter with clamp process connection

Note:

All these following versions

- Have as minimum
 - a 18...36 V DC operating voltage
 - a 4...20 mA current output (AO1) and
 - a digital output (DO1)
- Are supplied with one kit 565384

Digital input	Relay output	Materials			Certificates		Electrical connection	Article no.
		Housing	Sensor /electrode	Fitting/flowmeter seals ^{1.)}	FDA	ECR1935/2004 ^{2.)}		
No	No	PPA	Stainless steel / stainless steel	EPDM or FEP	Yes	Yes	2 cable glands M20 x 1.5	564797
1 (DI1)	2 (DO2, DO3)							564798

1.) Has to be ordered separately.

2.) Only if mounted with EPDM seal.

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10.5. Ordering chart accessories

Description	Article no.
For flowmeter with G 2" or clamp process connection	
Set with 2 cable glands M20×1.5 + 2 neoprene flat seals for cable gland or plug + 2 screw plugs M20×1.5 + 2 multi-way seals 2×6 mm	449755 ☒
Set with 2 reductions M20×1.5 /NPT ½" + 2 neoprene flat seals for cable gland or plug + 2 screw plugs M20×1.5	551782 ☒
3 points calibration certificate (device combined with a S020 fitting, only for DN ≤200)	550676 ☒
FDA declaration of conformity (for stainless steel or PVDF sensor with FKM or EPDM seal)	803724 ☒
For flowmeter with G 2" process connection	
Set with 1 stopper for unused cable gland M20×1.5 + 1 multiway seal 2×6 mm for cable gland + 1 green FKM seal for the sensor + 1 mounting instruction sheet	558102 ☒
Mounting ring (open) for S020 fitting	619205 ☒
PC nut for S020 fitting	619204 ☒
PPA nut for S020 fitting	440229 ☒
Set with 1 green FKM and 1 black EPDM seal	552111 ☒
For flowmeter with clamp process connection	
Set with 1 stopper for unused cable gland M20×1.5 + 1 multiway seal 2×6 mm for cable gland	565384 ☒
1 EPDM fitting/flowmeter seal	730837 ☒
1 FEP fitting/flowmeter seal	730839 ☒
Clamp collar	731164 ☒