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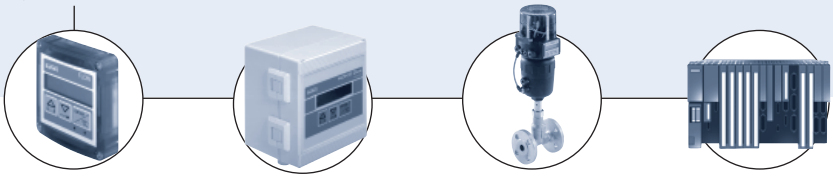
FLUID CONTROL SYSTEMS

Positive displacement low flow sensor for continuous measurement and batch control

- For highly viscous fluids
- Electronics for indication, monitoring, transmitting, On/Off control and batch control

Type 8071 can be combined with...



Type 8025
Remote Universal flow transmitter

Type 8025
Dosing system Konti-Dos

Type 2712 (8630)
Continuous TopControl system

PLC

This positive displacement sensor is specially designed for measurement or batch control of highly viscous fluids like glue, honey or oil. This sensor can be easily connected to the universal transmitter Type 8025 or the batch controller Type 8025.

The design of this low flow sensor is based on the oval rotor principle. This has proven to be a reliable and highly accurate volumetric method of measuring flow. Exceptional repeatability and high accuracy over a wide range of viscosities and flowrates are features of that design. The low pressure drop and high pressure rating make it suitable for both gravity and pump (in-line) applications.

General data	
Compatibility	with Type 8025 Universal transmitter or batch controller (see corresp. data sheet)
Materials wetted parts	
Body	Aluminium, PPS, stainless steel (316F)
Rotor	PPS, stainless steel (316F)
Shaft	Hastalloy C, stainless steel (316F)
Seal	FKM - EPDM
Electrical connection	3-wire cable, 1 m length

Electrical data	
Sensor	Hall
Current consumption	≤ 9 mA
Output frequency	Open collector, NPN, max. 25 mA, 4.5 to 24 V DC
K-factor	
0.5-50 l/h	1552 pulses/l
2-100 l/h	1000 pulses/l
15-500 l/h	400 pulses/l

Complete device data	
Process connection	Thread 1/8"; 1/4" (G or NPT)
Measuring range	0.5 to 500 l/h (0.13 to 132 gph)
Fluid temperature max.	Aluminium or PPS body: 80 °C Stainless steel body: 120 °C
Fluid pressure max.	Aluminium or PPS body: 5 bar Stainless steel body: 10 bar or 55 bar (550 bar on request)
Viscosity	1000 cps. max. (higher on request)
Max. particle size	75 µm - To prevent damage from dirt or foreign matter, we strongly recommend the installation of a 75 µm (200 mesh) strainer as close as possible to the inlet side of the meter.
Accuracy	≤ ± 1% of Reading
Repeatability	≤ 0.03% of Reading

Environment	
Ambient temperature	(operating and storage)
Aluminium or PPS body	+ 80 °C max.
Stainless steel body	+ 120 °C max.

Standards and approvals	
Protection class	IP54 (NEMA 13)

Ordering chart for sensor Type 8071

Process connection	Flow Range > 1 cps	Flow Range < 1 cps	Body material	Max. pressure	Rotor / shaft material	Gasket	Item no.
G 1/8	0.5-50 l/h (0.13 to 13.2 gph)	5-50 l/h (1.32 to 13.2 gph)	Aluminium	5 bar	Stainless steel	FKM	552 818
			Stainless steel	10 bar	Stainless steel	FKM	552 820
				55 bar	Stainless steel	FKM	553 628
NPT 1/8	0.5-50 l/h (0.13 to 13.2 gph)	5-50 l/h (1.32 to 13.2 gph)	Aluminium	5 bar	Stainless steel	FKM	552 819
			Stainless steel	10 bar	Stainless steel	FKM	552 821
				55 bar	Stainless steel	FKM	553 629

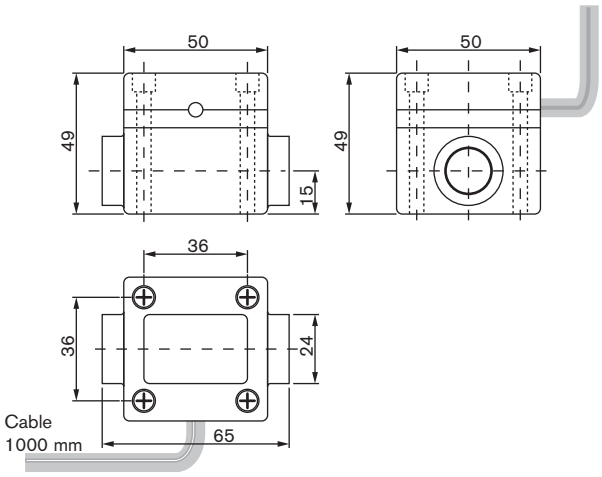
Process connection	Flow Range > 5 cps	Flow Range < 5 cps	Body material	Max. pressure	Rotor / shaft material	Gasket	Item no.
G 1/4	2-100 l/h (0.53 to 26.4 gph)	12.5-100 l/h (3.3 to 26.4 gph)	PPS	5 bar	PPS / Hastalloy C	FKM	432 288
						EPDM	550 072
			Stainless steel	10 bar	Stainless steel	FKM	433 864
						EPDM	551 817
				55 bar	Stainless steel	FKM	550 146
	15-500 l/h (4.00 to 132 gph)	40-500 l/h (10.56 to 132 gph)	PPS	5 bar	PPS / Hastalloy C	FKM	430 856
						EPDM	434 364
			Stainless steel	10 bar	Stainless steel	FKM	437 518
						EPDM	553 651
				55 bar	Stainless steel	FKM	553 631
	15-500 l/h for high viscosity*		Stainless steel	10 bar	Stainless steel	FKM	552 426
NPT 1/4	2-100 l/h (0.53 to 26.4 gph)	12.5-100 l/h (3.3 to 26.4 gph)	PPS	5 bar	PPS / Hastalloy C	FKM	448 654
			Stainless steel	10 bar	Stainless steel	FKM	448 656
				55 bar	Stainless steel	FKM	553 630
	15-500 l/h (4.00 to 132 gph)	40-500 l/h (10.56 to 132 gph)	PPS	5 bar	PPS / Hastalloy C	FKM	448 655
			Stainless steel	10 bar	Stainless steel	FKM	448 657
				55 bar	Stainless steel	FKM	553 632
	15-500 l/h for high viscosity*		Stainless steel	10 bar	Stainless steel	FKM	553 652

* > 1000 cps

Ordering chart for spare parts (to be ordered separately)

Specifications	Item no.
Set of two rotors for the measuring range	
In stainless steel for 0.5 -50 l/h	560 180
In stainless steel for 2-100 l/h	550 919
In stainless steel for 15-500 l/h	550 920
In PPS for 2-100 l/h	550 921
In PPS for 15-500 l/h	550 922
FKM gasket	550 923
EPDM gasket	550 924
PTFE gasket	550 959
Set of stainless steel cap with hall sensor	553 653
Set of PPS cap with hall sensor	553 654

Dimensions [mm]



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In case of special application conditions, please consult for advice.

We reserve the right to make technical changes without notice.

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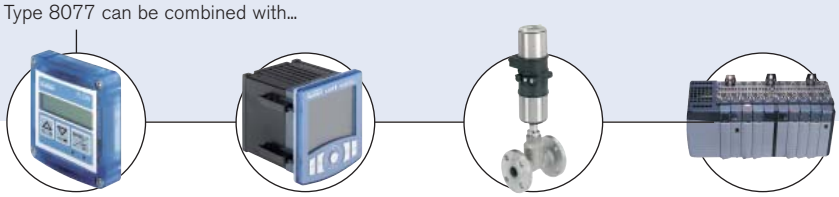
FLUID CONTROL SYSTEMS

Positive displacement low volume flow-meter for continuous measurement

- For highly viscous fluids
- Available for indication, monitoring, transmitting, On/Off control together with 8025 or 8619 and/or batch control together with 8025

Type 8077 can be combined with...



Type 8025
Universal
flow transmitter

Type 8619
multiCELL
transmitter/controller

Type 2101 (8692)
Continuous
TopControl system

PLC

This positive displacement flowmeter is specially designed for measurement or batch control (if combined with 8025/8619) of highly viscous fluids like glue, honey or oil.

The design of this low flowmeter is based on the oval rotor principle. This has proven to be a reliable and highly accurate volumetric method of measuring flow. Exceptional repeatability and high accuracy over a wide range of viscosities and flowrates are features of that design. The low pressure drop and high pressure rating make it suitable for both gravity and pump (in-line) applications.

All 8077 devices provide Open Collector NPN frequency output and frequency output on Reed contact via 1 meter 5-wire cable with open ends.

General data	
Compatibility	with Type 8025 Universal transmitter/batch controller or Typ 8619 multiCELL transmitter/Controller (see corresponding data sheet)
Materials	
Electronic module	PP (20% glass fiber)
Tag plate	Aluminium
Wetted parts materials	
Body	Aluminium, stainless steel 316L (1.4401)
Rotor	Stainless steel 316L (1.4401)
Shaft	Stainless steel 316L (1.4401)
Seal	FEP/PTFE
Electrical connections	Cable gland, 5-wire cable, 1 m length

Environment	
Ambient temperature	(operating and storage) -15...+60°C *(+5...+140°F)*
Relative humidity	≤ 85%, non condensated

Complete device data	
Process connection	Thread 1/8"; 1/4" (G or NPT)
Measuring range	0.5...500 l/h *(0.13...132 gph)* (depends on the version)
Medium temperature max. Aluminium body Stainless steel body	 -20...+80°C *(-4...+176°F)* -20...+120°C *(-4...248°F)*
Medium pressure max.	Aluminium body: 55 bar *(798 PSI)* Stainless steel body: 55 bar *(798 PSI)* (550 bar *(7980 PSI)* on request)
Viscosity	1 Pa.s. max. (higher on request)
Max. particle size	75 µm - To prevent damage from dirt or foreign matter, we strongly recommend the installation of a 75 µm (200 mesh) strainer as close as possible to the inlet side of the meter.
Measurement deviation	±1% of Reading (if "standard" K-factor is used) ±0.5% of Reading (if "specific" K-factor is used, on label of the product)
Repeatability	≤ 0.03% of Reading

Electrical data	
Sensor type	Hall effect sensor or Reed contact
Current consumption	≤ 9 mA (Hall effect sensor)
Output frequency Hall effect sensor Reed contact	 Open collector, NPN, max. 25 mA, 4.5...24 V DC switching voltage 30 V DC, max. current, 0.5 A
Standard K-factor 0.5...100 l/h 15...500 l/h	 1000 pulses/l 400 pulses/l

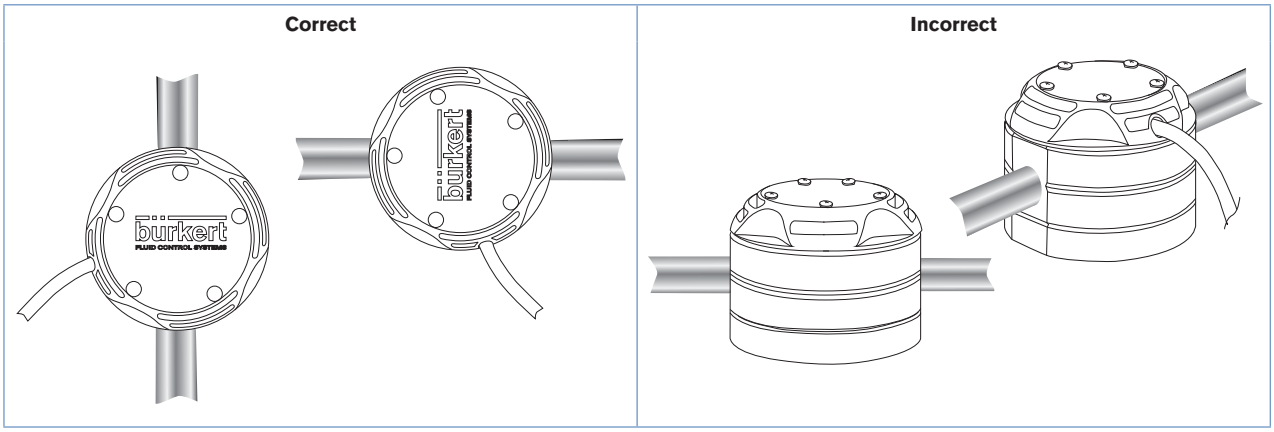
Standards, directives and approvals	
Protection class	IP67, IP66, NEMA 6
Directives EMC Pressure	 EN 61326-1 Complying with article 3 of §3 from 97/23/CE directive*. (without CE mark)

* For the 97/23/CE pressure directive, the device can only be used under following conditions (dependent on max. pressure, pipe diameter and fluid).

Type of fluid	Conditions
Fluid group 1, §1.3.a	Forbidden
Fluid group 2, §1.3.a	DN ≤ 32, or DN > 32 and PN*DN ≤ 1000
Fluid group 1, §1.3.b	PN*DN ≤ 2000
Fluid group 2, §1.3.b	DN ≤ 200

Installation and operation

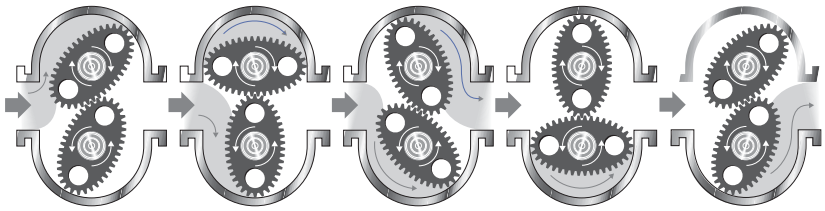
The sensor fitting can be installed in any orientation as long as **the rotor shafts are always in a horizontal plane** (see figures below).



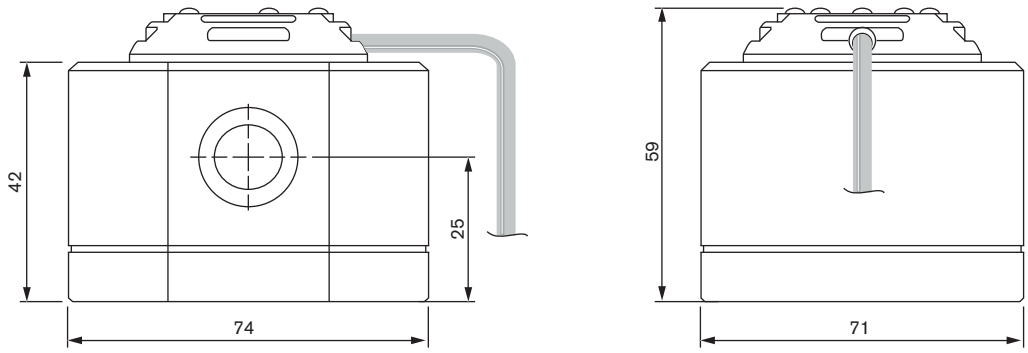
The pipe must be filled with liquid and free from air bubbles. Avoid air purge of the system which would cause damages and to prevent damage from dirt or foreign matter, we strongly recommend the installation of a 250 µm strainer as close as possible to the inlet side of the meter.

When fluid passes through the fitting, rotors turn. This rotation produces a measuring frequency in the associated hall sensor, which is proportional to the flow. The volume of the fluid being transferred in this way is exactly determined through the sensor geometry.

A conversion coefficient, specific to each meter size, enables the conversion of this frequency into a flow rate. The standard K factor depending on the meter size is available in the instruction manual of the sensor fitting 8077, or to improve the measurement deviation, a specific K factor is given with each device on its label.



Dimensions [mm]



Ordering chart for flowmeter Type 8077

Process connection	Flow range > 5 mPa.s	Flow range < 5 mPa.s	Body material	Max. pressure	Rotor / shaft material	Seal	Item no.
G 1/8	0.5...100 l/h (0.13...26.4 gph)	2...100 l/h (0.53...26.4 gph)	Aluminium	55 bar	Stainless steel	FEP/PTFE	567 202
			Stainless steel	55 bar	Stainless steel	FEP/PTFE	567 203
NPT 1/8	0.5...100 l/h (0.53...26.4 gph)	2...100 l/h (0.53...26.4 gph)	Aluminium	55 bar	Stainless steel	FEP/PTFE	567 204
			Stainless steel	55 bar	Stainless steel	FEP/PTFE	567 205
G 1/4	0.5...100 l/h (0.13...26.4 gph)	2...100 l/h (0.53...26.4 gph)	Stainless steel	55 bar	Stainless steel	FEP/PTFE	567 206
	15...500 l/h (4.00...132 gph)	40...500 l/h (10.56...132 gph)	Stainless steel	55 bar	Stainless steel	FEP/PTFE	567 207
	15...500 l/h for high viscosity*		Stainless steel	55 bar	Stainless steel	FEP/PTFE	567 208
NPT 1/4	0.5...100 l/h (0.53...26.4 gph)	2...100 l/h (0.53...26.4 gph)	Stainless steel	55 bar	Stainless steel	FEP/PTFE	567 209
	15...500 l/h (4.00...132 gph)	40...500 l/h (10.56...132 gph)	Stainless steel	55 bar	Stainless steel	FEP/PTFE	567 210
	15...500 l/h for high viscosity*		Stainless steel	55 bar	Stainless steel	FEP/PTFE	567 211

* > 1 Pa.s.

Ordering chart for accessories

Description	Item no.
Set of two rotors in stainless steel for measuring range 0.5...100 l/h	567 766
Set of two rotors in stainless steel for measuring range 15...500 l/h	567 767
FEP/PTFE seal for measuring range 0.5...100 l/h	567 768
FEP/PTFE seal for measuring range 15...500 l/h	567 769
Set of plastic cap with hall sensor and Reed contact	567 770

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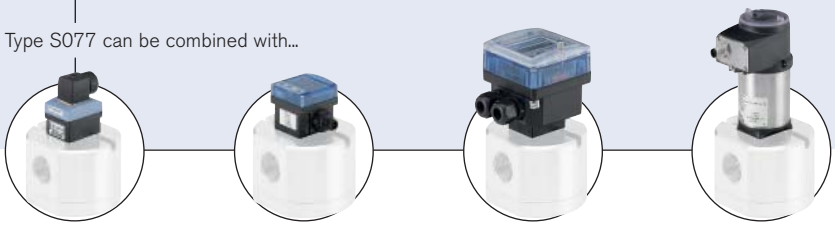
bürkert
FLUID CONTROL SYSTEMS

Positive displacement sensor fitting for continuous flow measurement

- DN15...DN100
- INLINE Quarter-Turn technology
- Electronics available for indication, monitoring, transmitting, On/Off control and batch control

Type S077 can be combined with...



Type SE30
INLINE
flow transmitter

Type SE32
INLINE
flow transmitter

Type SE35
INLINE
flow transmitter

Type SE36
INLINE ELEMENT
flow transmitter

This positive displacement sensor fitting is specially designed for flow measurement and/or batch control of highly viscous fluids like glue, honey or oil.

This measuring element must be associated to a transmitter SE30, SE32, SE35, SE36 with hall sensor principle only, quickly and easily connected together by a Quarter-Turn.

The design of this fitting is based on the oval rotor principle. This has proven to be a reliable and highly accurate volumetric method of measuring flow. Exceptional repeatability and high accuracy over a wide range of viscosities and flowrates are features of that design. The low pressure drop and high pressure rating make it suitable for both gravity and pump (inline) applications

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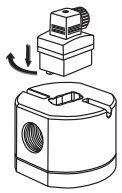
The Bürkert Quarter-turn technology



General data	
Compatibility	With transmitter SE30, SE32, SE35, SE36 with Hall sensor principle (see separate data sheet)
Wetted parts materials	
Body	Aluminium, stainless steel 316L (1.4401)
Rotor	PPS, aluminium, stainless steel 316L (1.4401)
Shaft	Stainless steel 316L (1.4401)
Seal	FKM or FEP/PTFE encapsulated

Complete device data	
Pipe diameter	DN15...DN100
Thread connection	½"; 1"; 1½"; 2"; 3" (G or NPT)
Flange connection	25; 40; 50; 80 or 100 mm DIN PN16 flange 1"; 1½; 2"; 3" or 4" ANSI 150LB flange
Measuring range	
Viscosity > 5 mPa.s	2...1200 l/min (0.53...320 gpm)
Viscosity < 5 mPa.s	3...616 l/min (0.78...160 gpm)
Medium temperature max.	Aluminium body: -20...+80°C *(-4...+176°F)* Stainless steel body: -20...+120°C *(-4...248°F)*
Medium pressure max.	
DN15	55 bar *(798.05 PSI)* (threaded process connection)
DN25	55 bar *(798.05 PSI)* [1]
DN40 or DN50	18 bar *(261.18 PSI)*
DN80 / DN100	12 bar *(174.12 PSI)* / 10 bar *(145.1 PSI)*
Viscosity	1 Pa.s max. (higher on request)
Max. particles size	250 mm - To prevent damage from dirt or foreign matter, we strongly recommend the installation of a 250 mm strainer as close as possible to the inlet side of the meter.
Measurement deviation	±1% of Reading (if "standard" K-factor is used) ±0.5% of Reading (if "specific" K-factor is used, on label of the product)
Repeatability	±0.03% of Reading

[1] or in accordance to the value of the used flanges

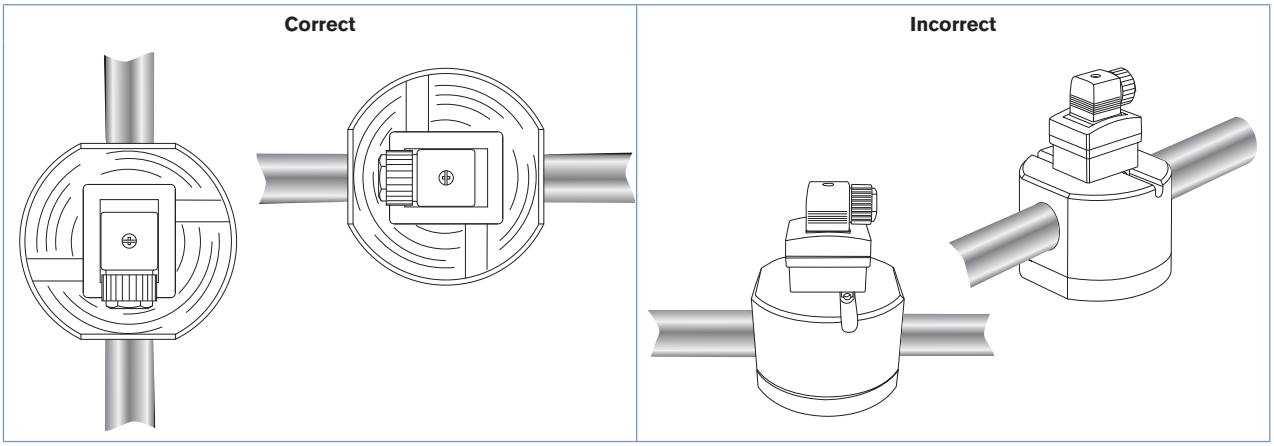
Environment	
Ambient temperature	0...+60°C *(+32...+140°F)* (operation and storage)
Standards, directives and approvals	
Directives Pressure	Complying with article 3 of §3 from 97/23/CE directive*. (without CE mark)

* For the 97/23/CE pressure directive, the device can only be used under following conditions (dependent on max. pressure, pipe diameter and fluid).

Type of fluid	Conditions
Fluid group 1, §1.3.a	Forbidden
Fluid group 2, §1.3.a	DN ≤ 32, or DN > 32 and PN*DN ≤ 1000
Fluid group 1, §1.3.b	PN*DN ≤ 2000
Fluid group 2, §1.3.b	DN ≤ 200

Installation and operation

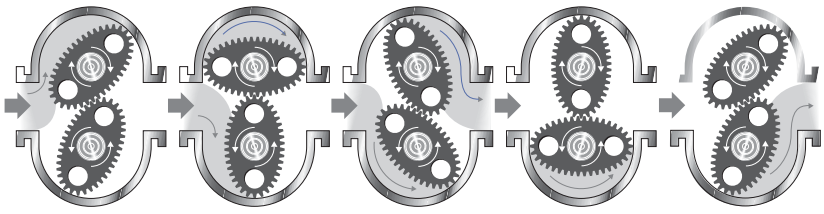
The sensor fitting can be installed in any orientation as long as **the rotor shafts are always in a horizontal plane** (see figures below).



The pipe must be filled with liquid and free from air bubbles. Avoid air purge of the system which would cause damages and to prevent damage from dirt or foreign matter, we strongly recommend the installation of a 250 µm strainer as close as possible to the inlet side of the meter.

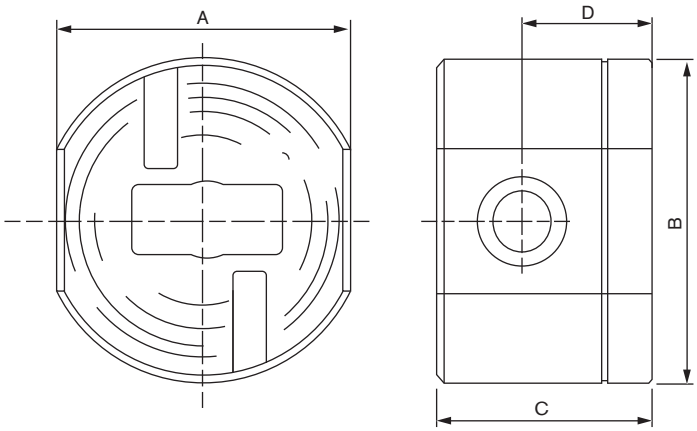
When fluid passes through the fitting, rotors turn. This rotation produces a measuring frequency in the associated hall sensor, which is proportional to the flow. The volume of the fluid being transferred in this way is exactly determined through the sensor geometry.

A conversion coefficient, specific to each meter size, enables the conversion of this frequency into a flow rate. The standard K factor depending on the meter size is available in the instruction manual of the sensor fitting S077, or to improve the measurement deviation, a specific K factor is given with each device on its label.



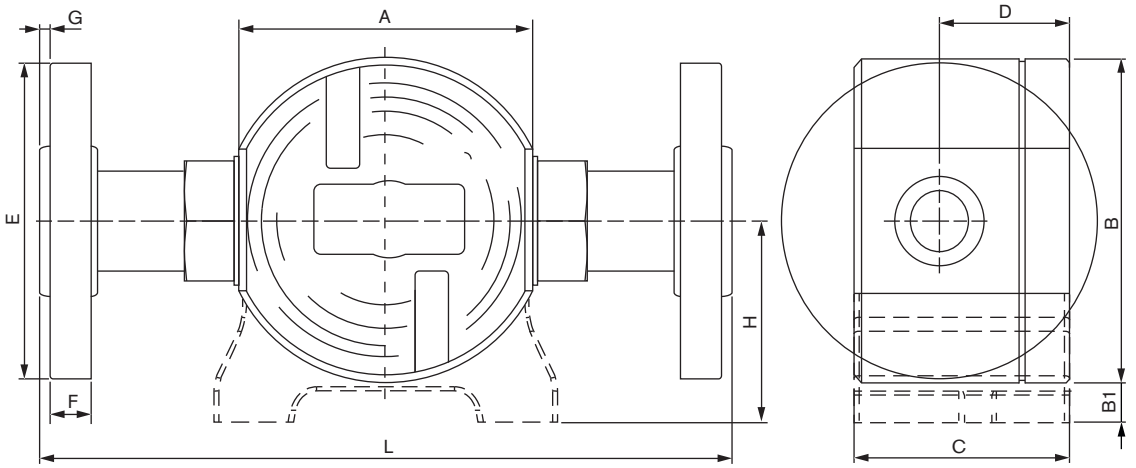
Dimensions [mm]

Threaded connection



Orifice DN	A		B	C	D
	St. St.	Alu			
15	81	81	87	49	28
25	100	100	112	75	45
40	120	120	137	103	61
50	140	140	163	124	72
80	260	302	220	180	80

Flanged connection



Orifice DN	A	B	B1	C	D	E		F		G		H	L			
													Stainless steel		Aluminium	
						DIN	ANSI	DIN	ANSI	DIN	ANSI		DIN	ANSI	DIN	ANSI
25	100	112	-	75	45	115	108	16.0	12.7	2	2	-	240	240	240	240
40	120	137	-	103	61	150	125	16.0	15.9	3	2	-	240	240	240	240
50	140	163	-	124	72	165	152	18.0	17.5	3	2	-	264	264	264	264
80	-	226	28	180	78	200	191	20.0	27.4	3	1.6	141	344	348	435	435
100	-	291	42	226	108	220	229	30.0	28.4	0	1.6	191	-	-	583	583

Ordering chart for sensor fitting Type S077

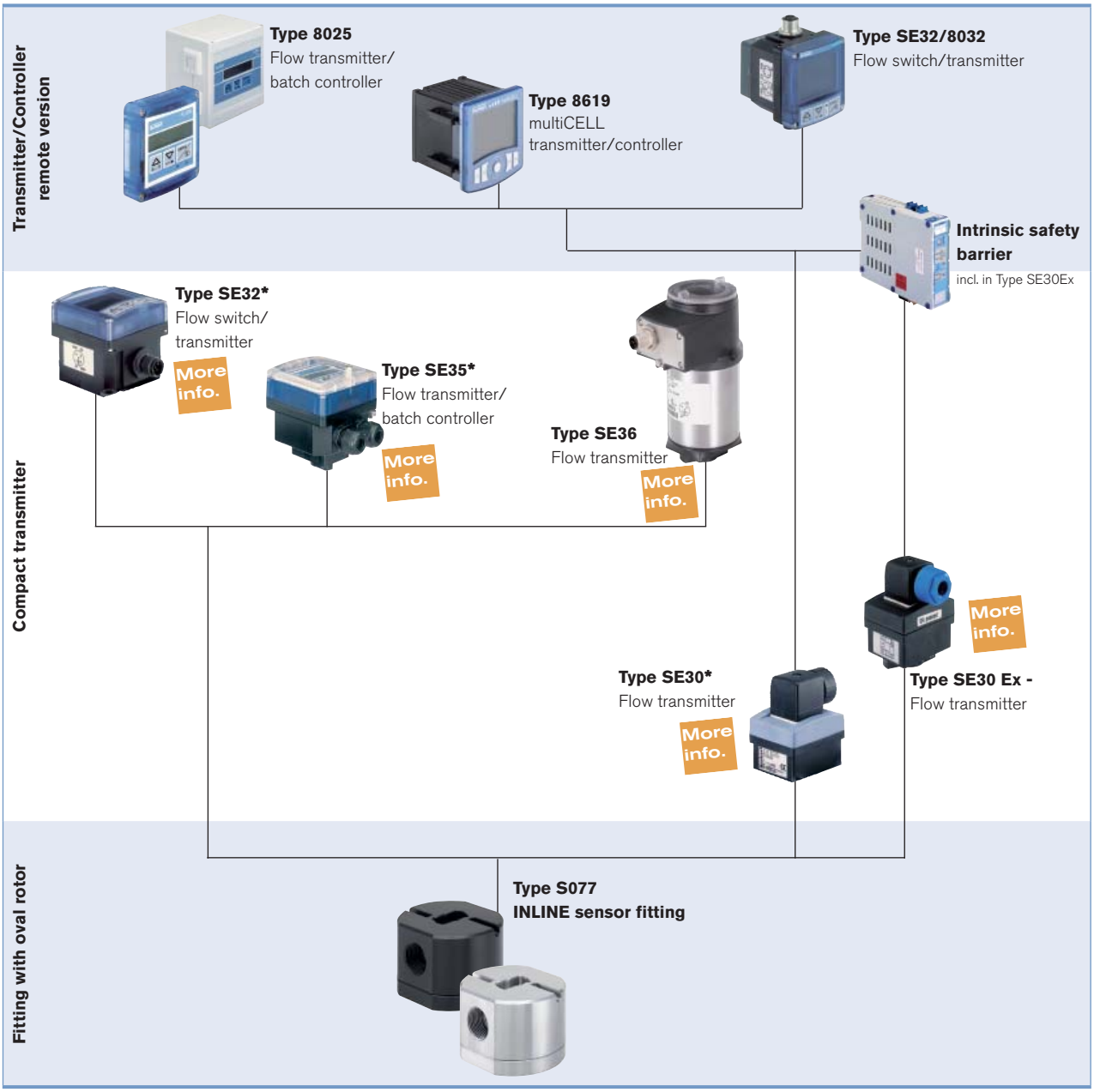
Orifice DN	Process connection	Flow Range > 5 mPa.s	Flow Range < 5 mPa.s	Body material	Rotor material	Seal	Item no.
15	G ½"	2...30 l/min	3...25 l/min	Aluminium	PPS	FKM	567 223
				Stainless steel	Stainless steel	FEP/PTFE	567 224
	NPT ½"	2...30 l/min	3...25 l/min	Aluminium	PPS	FKM	567 225
				Stainless steel	Stainless steel	FEP/PTFE	567 226
25	G 1"	6...120 l/min	10...100 l/min	Aluminium	PPS	FKM	567 227
				Stainless steel	Stainless steel	FEP/PTFE	567 228
	NPT 1"	6...120 l/min	10...100 l/min	Aluminium	PPS	FKM	567 229
				Stainless steel	Stainless steel	FEP/PTFE	567 230
	25 mm DIN PN16 flange	6...120 l/min	10...100 l/min	Aluminium	PPS	FKM	567 231
				Stainless steel	Stainless steel	FEP/PTFE	567 232
	1" ANSI 150 LB flange	6...120 l/min	10...100 l/min	Aluminium	PPS	FKM	567 233
				Stainless steel	Stainless steel	FEP/PTFE	567 234
40	G 1½"	10...250 l/min	15...235 l/min	Aluminium	PPS	FKM	567 235
				Stainless steel	Stainless steel	FEP/PTFE	567 236
	NPT 1½"	10...250 l/min	15...235 l/min	Aluminium	PPS	FKM	567 237
				Stainless steel	Stainless steel	FEP/PTFE	567 238
	40 mm DIN PN16 flange	10...250 l/min	15...235 l/min	Aluminium	PPS	FKM	567 239
				Stainless steel	Stainless steel	FEP/PTFE	567 240
	1 1/2" ANSI 150 LB flange	10...250 l/min	15...235 l/min	Aluminium	PPS	FKM	567 241
				Stainless steel	Stainless steel	FEP/PTFE	567 242
50	G 2"	15...350 l/min	30...300 l/min	Aluminium	PPS	FKM	567 243
	NPT 2"	15...350 l/min	30...300 l/min	Aluminium	PPS	FKM	567 244
	50 mm DIN PN16 flange	15...350 l/min	30...300 l/min	Aluminium	PPS	FKM	567 245
				Stainless steel	Stainless steel	FEP/PTFE	567 246
	2" ANSI 150 LB flange	15...350 l/min	30...300 l/min	Aluminium	PPS	FKM	567 247
				Stainless steel	Stainless steel	FEP/PTFE	567 248
80	G 3"	20...733 l/min	66...616 l/min	Aluminium	Aluminium	FKM	567 249
	NPT 3"	20...733 l/min	66...616 l/min	Aluminium	Aluminium	FKM	567 250
	80 mm DIN PN16 flange	20...733 l/min	66...616 l/min	Aluminium	Aluminium	FKM	567 251
	3" ANSI 150 LB flange	20...733 l/min	66...616 l/min	Aluminium	Aluminium	FKM	567 252
100	100 mm DIN PN16 flange	120...1200 l/min	---	Aluminium	Aluminium	FKM	567 253
	4" ANSI 150 LB flange	120...1200 l/min	---	Aluminium	Aluminium	FKM	567 254

Ordering chart for spare parts for sensor fitting S077

Description	Orifice Size [mm]	Orifice Size [inch]	Materials	Item no.
Rotor	DN15	½"	PPS	567 741
			Stainless steel	567 742
	DN25	1"	PPS	567 743
			Stainless steel	567 744
	DN40	1 ½"	PPS	567 745
			Stainless steel	567 746
	DN50	2"	PPS	567 747
			Stainless steel	567 748

Description	Orifice Size [mm]	Orifice Size [inch]	Materials	Item no.
O-ring	DN15	½"	FEP/PTFE	567 754
			FKM	567 755
	DN25	1"	FEP/PTFE	567 756
			FKM	567 757
	DN40	1 ½"	FEP/PTFE	567 758
			FKM	567 759
	DN50	2"	FEP/PTFE	567 760
			FKM	567 761

Interconnection possibilities with other Bürkert products



*** Use only version with Hall transducer**

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