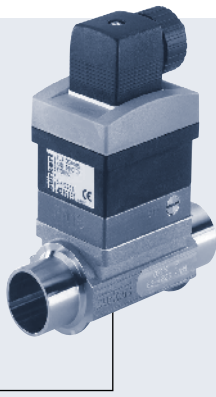
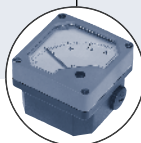


INLINE Flow sensor for continuous flow measurement

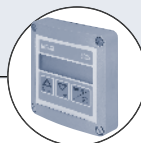


Type 8030 can be combined with...



Type 8034

Flow indicator
Wall or Panel



Type 8025

Flow transmitter
Wall or Panel



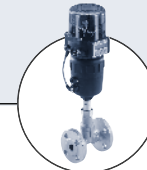
Type 8023

4–20 mA
output module



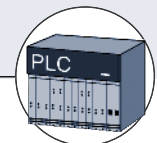
Typ 8623-2

PI Flow–
Controller



Type 2712 (8630)

Continuous
TopControl System



PLC

- Economic integration in pipe systems without any additional piping
- 2–wire frequency coil (sinusoidal) version
3–wire frequency (Hall effect) pulse version to directly interface with PLC's (both PNP and NPN)
- Can be upgraded to a low cost transmitter providing a calibrated pulse or 4–20 mA

The paddle–wheel flow sensor for continuous flow measurement is especially designed for use in neutral, slightly aggressive, solid free liquids. The sensor is made up of a compact fitting (S030) and an electronic module (SE30) quickly and easily connected together by a Quarter–Turn. The Burkert designed fitting system ensures

simple installation of the sensors into all pipe diameters from 1/4" to 2 1/2". The sensor produces frequency signal (pulse or sinusoidal), proportional to the flow rate, which can easily be transmitted and processed by:

- a Burkert remote transmitter/indicator (Type 8025/8034/8032 remote versions)

- a transmitter module 8023 into a 4–20 mA output signal
- a pulse divider module 8021 into adjustable frequency output signal
- a batch controller 8600 mounted on a valve

General data

Compatibility	with all fittings S030 (see corresp. datasheet)
Materials	
Housing, cover	PC
Cable plug	PA, brass electro–silver–plated
Materials wetted parts	
Fitting	Brass, Stainless Steel 1.4404/316L PVC, PP or PVDF
Paddle–wheel	PVDF
Axis and bearing	Ceramic
Seal	FKM (EPDM option)
Electrical connections	Cable plug EN 175301–803
Voltage supply cable	
Cross–section	1.5 mm ² max.
Recommended length	max. 10 m, shielded (for sinus sensor version) max. 50 m, shielded (for pulse sensor version)

Complete device data (fitting + electronic module)

Pipe diameter	1/4" to 2 1/2" (DN 6 to 65)
Measuring range	1.0 ft/s to 32.8 ft/s (0.3 m/s to 10 m/s)
Medium temperature max.	122°F (50°C) with PVC fitting 176°F (80°C) with PP fitting 212°F (100°C) with St.St., brass or PVDF fitting
Fluid pressure max.	140 PSI (PN10) with plastic fitting 230 PSI (PN16) with metal fitting (PN40 on request, see 8030 HT datasheet)
Viscosity	300 cSt. max.
Accuracy	
Teach-In	≤ ±0.5% of F.S.* (at 32.8 ft/s)
Standard K-factor	≤ ±(0.5% of F.S. + 2.5% of Reading)*
Linearity	≤ ±0.5% of F.S.* (at 32.8 ft/s)
Repeatability	0.4% of Reading*

Electrical data

Power supply	
Coil (sinusoidal) version	None
Hall (pulse) version	12–36 VDC
Hall (pulse) "low power" version	12–36 VDC (via Burkert transmitter)
Current consumption with sensor	
Hall (pulse) version	< 30 mA
Hall (pulse) "low power" version	< 0.8 mA
Output: Frequency	
Coil (sinusoidal) version	Alternating 0...10V, frequency: 0...300 Hz, Transistor NPN/PNP, open collector, max. 100 mA, frequency: 0...300 Hz; duty cycle 1/2
Hall (pulse) version	Transistor NPN, open collector, max. 10 mA, frequency: 0...300 Hz; duty cycle 1/2
Hall (pulse) "low power" version	
Reversed polarity of DC	Protected

Environment

Ambient temperature	
operating and storage	32 up to 140°F (0 up to +60°C)
Relative humidity	≤ 80%, non condensated

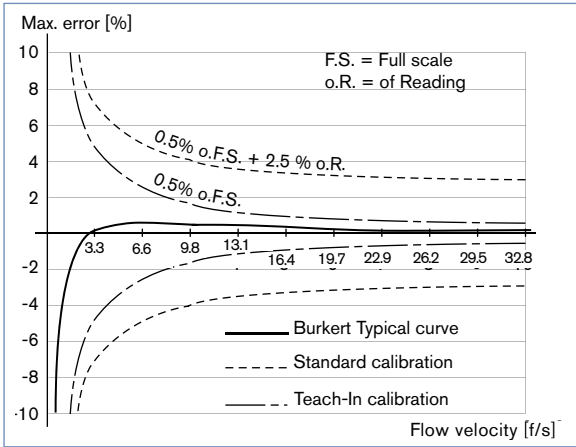
Standards and approvals

Protection class	IP65
EMC	EN 50081–1, 50082–2

* Under reference conditions i.e. measuring fluid=water, ambient and water temperature=20°C, applying the minimum inlet and outlet pipe straights, matched inside pipe dimensions.

F.S.=Full scale (10 m/s)

Accuracy diagram



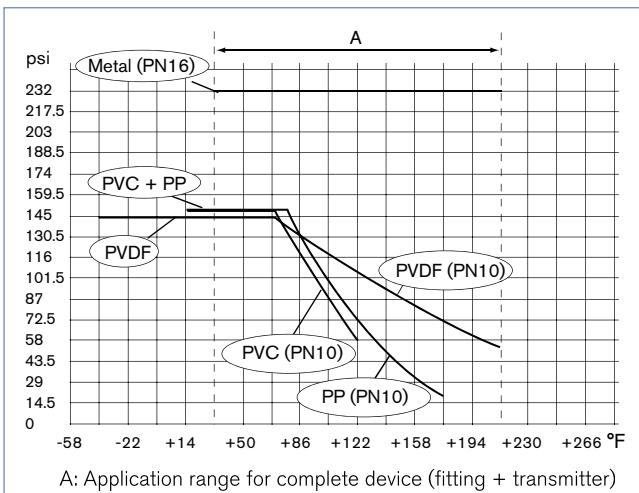
Principle of operation

When liquid flows through the pipe, the paddle-wheel is set in rotation producing a measuring signal in the transducer. The frequency and amplitude are proportional to the flow.

Three electronic module versions with frequency output are available:

- with one sinus output. No external power supply is required. Can only be connected to the flow transmitter Type 8025 or the indicator 8034 with battery power supply in wall-mounted version.
- with one pulse output (either NPN or PNP transistor output). An external power supply of 12–36 VDC is required. It is designed for connection to any system with open collector NPN or PNP frequency input.
- with one pulse "low power" output (NPN transistor output). An external power supply of 12–36 VDC is required. Can only be connected to separate versions of flow transmitters Type 8025/8034, to 4–20 mA or calibrated frequency output modules Type 8021/8023/8600.

Pressure / temperature chart (for plastic)

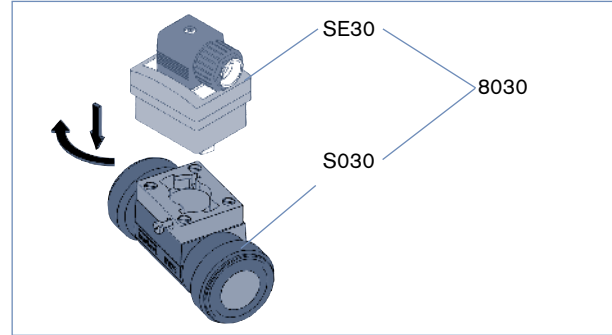


Design

The flow sensor 8030 is built up with an electronic module SE30 associated to a fitting S030 with integrated measurement paddle-wheel. This connection is made by means of a Quarter-Turn.

In a 2 or 3-wire system, the signal can be displayed or processed directly. The output signal is provided via cable plug according to EN 175301-803.

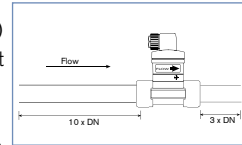
Quarter-Turn Technology



Installation

The flow sensor 8030 can easily be installed into any Burkert INLINE fitting system S030.

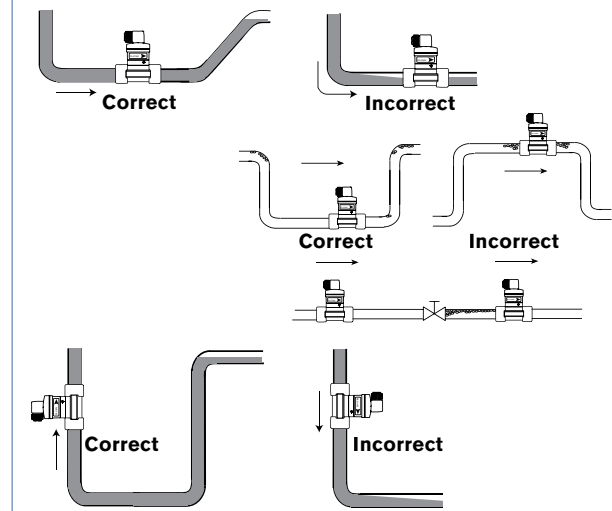
The minimum straight upstream (10x DN) and downstream (3x DN) distances must be observed. According to pipe's design, necessary distances can be bigger or use a flow conditioner to obtain the best accuracy. For more information, please refer to EN ISO 5167-1.



The flow rate sensor can be installed into either horizontal or vertical pipes. The suitable pipe size is selected using the diagram Flow/Velocity/DN. Pressure and temperature ratings must be respected according to the selected fitting material.

The flow sensor is not designed for gas flow measurement.

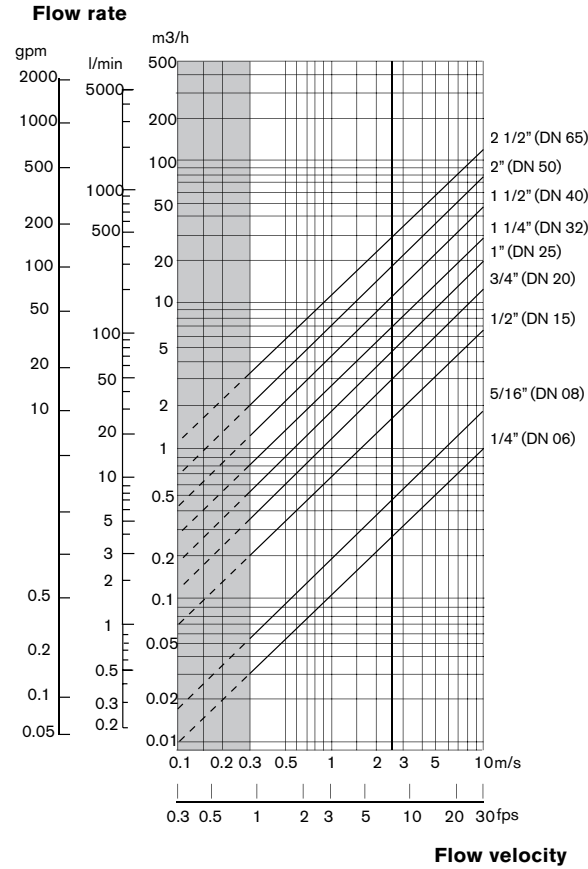
Installation positions



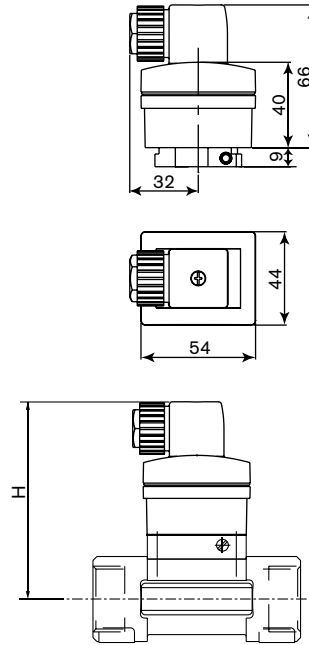
Selection of fitting / pipe size

Example:

- Specification of nominal flow: 50 GPM
- Ideal flow velocity: 6...9 ft/s
- For these specifications, the diagram indicates a pipe size of 1 1/2" (DN40)



Dimensions [mm]



Orifice	H
1/4" (6)	95.5
5/16" (8)	95.5
1/2" (15)	100.5
3/4" (20)	98.0
1" (25)	98.0
1 1/4" (32)	102.0
1 1/2" (40)	105.5
2" (50)	112.0
2 1/2" (65)	112.0

Ordering chart for sensor 8030

Flow sensor type 8030

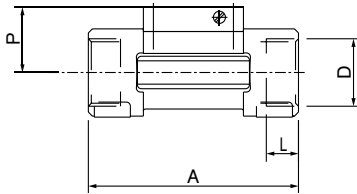
- A flow sensor type 8030 consists of:
- a sensor electronic module type SE30
 - an Inline fitting S030 (DN6 - DN 65) (Refer to corresponding data sheet)

Specifi- cations	Voltage supply	Output	Connector	Item no.
Coil (sinusoidal) version sensor (Can be used with Type 8025 or 8034 wall-mounted version with batteries)	None	Frequency	Cable plug EN 175301-803	423 912 C
Hall (pulse) version sensor (Can be used with Type 8021 or Type 8600 and PLC's)	12-36 VDC	Pulse PNP or NPN	Cable plug EN 175301-803	423 913 D
Hall (pulse) "low power" version sensor (Only used with Type 8025 Remote Electronics, 8021, 8023, 8600, 8024)	from associated transmitter	Pulse NPN	Cable plug EN 175301-803	423 914 E

INLINE fitting dimensions [mm]

Internal thread
Stainless steel (316L - 1.4404)
or brass (CuZn39Pb2)

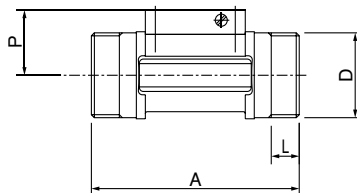
NPT
G
Rc



Orifice DN [mm]	P [mm]	A [mm]	D [mm]	L [mm]
1/2" (15)	34.5	85.0	NPT 1/2	17.0
			G 1/2	16.0
			Rc 1/2	15.0
3/4" (20)	32.0	95.0	NPT 3/4	18.3
			G 3/4	17.0
			Rc 3/4	16.3
1" (25)	32.2	105.0	NPT 1	18.0
			G 1	23.5
			Rc 1	18.0
1 1/4" (32)	35.8	120.0	NPT 1 1/4	21.0
			G 1 1/4	23.5
			Rc 1 1/4	21.0
1 1/2" (40)	39.6	130.0	NPT 1 1/2	20.0
			G 1 1/2	23.5
			Rc 1 1/2	19.0
2" (50)	45.7	150.0	NPT 2	24.0
			G 2	27.5
			Rc 2	24.0

External thread
Stainless steel (316L - 1.4404)
or brass (CuZn39Pb2)
or PVC (only DN6 and 8)
or PVDF (only DN 8)

G

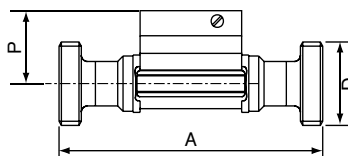


Orifice DN [mm]	P [mm]	A [mm]	D		L [mm]
			[inch]	[mm]	
1/4" (6)	29.5	90.0	1/4 or 1/2**	-	14.0
5/16" (8)	29.5	90.0	1/2**	M16x1.5	14.0
1/2" (15)	34.5	84.0	G 3/4	-	11.5
3/4" (20)	32.0	94.0	G 1	-	13.5
1" (25)	32.2	104.0	G 1 1/4	-	14.0
1 1/4" (32)	35.8	119.0	G 1 1/2	-	18.0
1 1/2" (40)	39.6	129.0	-	M 55 x 2	19.0
2" (50)	45.7	149.0	-	M 64 x 2	20.0

** NPT, G, or RC according fitting version

External thread
Stainless steel (316L - 1.4404)

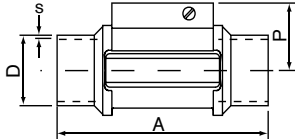
SMS1145



Orifice DN [mm]	P [mm]	A [mm]	D
25	32.0	130	Rd40 x 1/6"
40	35.8	164	Rd60 x 1/6"
50	39.6	173	Rd70 x 1/6"

INLINE fitting dimensions [mm]

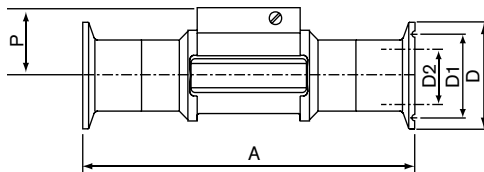
Welding ends
Stainless steel (316L - 1.4404)
BS 4825 / ASME BPE
ISO 4200
SMS 3008
DIN 11850 Rg2



Orifice DN [mm]	P [mm]	A [mm]	Standard	D [mm]	s [mm]
5/16" (08)	29.5	90.0	ISO 4200 -	-	-
			SMS 3008	-	-
			ASME BPE	-	-
			DIN 11850 Rg2	13.00	1.50
1/2" (15)	34.5	84.0	ISO 4200 21.30	1.60	-
			SMS 3008	-	-
			ASME BPE	-	-
			DIN 11850 Rg2	19.00	1.50
3/4" (20)	32.0	94.0	ISO 4200 26.90	1.60	-
			SMS 3008	20.00	1.00
	34.5	84.0	ASME BPE	19.05	1.65
			DIN 11850 Rg2	23.00	1.50
1" (25)	32.2	104.0	ISO 4200 33.70	2.00	-
			SMS 3008	25.00	1.20
	32.0	94.0	BS 4825/ASME BPE	25.40	1.65
			DIN 11850 Rg2	29.00	1.50
1 1/4" (32)	35.8	119.0	ISO 4200 42.40	2.00	-
			SMS 3008	-	-
	32.2	104.0	BS 4825/ASME BPE	32.00	1.60
			DIN 11850 Rg2	35.00	1.50
1 1/2" (40)	39.6	129.0	ISO 4200 48.30	2.00	-
			SMS 3008	38.00	1.20
	35.8	119.0	BS 4825/ASME BPE	38.10	1.65
			DIN 11850 Rg2	41.00	1.50
2" (50)	45.7	149.0	ISO 4200 60.30	2.00	-
			SMS 3008	51.00	1.20
	39.6	128.0	BS 4825/ASME BPE	50.80	1.65
			DIN 11850 Rg2	53.00	1.50
2 1/2" (65)	45.7	147.0	ISO 4200 -	-	-
			SMS 3008	63.50	1.60
			BS 4825/ASME BPE	63.50	1.65
			DIN 11850 Rg2	-	-

Tri-Clamp®
Stainless steel (316L - 1.4404)
BS 4825/ASME BPE*
ISO (for pipe ISO 4200)
SMS 3017 / ISO 2852*
DIN 32676

*Available with internal surface finish Ra=0.8µm

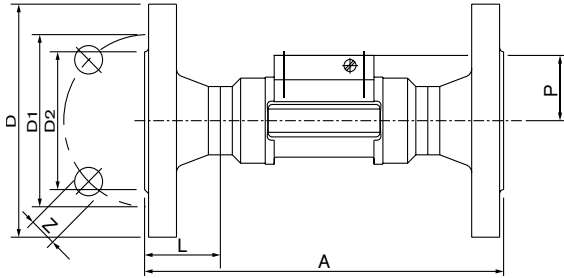


Orifice DN [mm]	P [mm]	A [mm]	Standard	D2 [mm]	D1 [mm]	D [mm]
5/16" (08)	-	-	ISO (for pipe ISO 4200)	-	-	-
			SMS 3017/ISO 2852	-	-	-
			ASME BPE	-	-	-
			DIN 32676	10.00	27.5	34.0
1/2" (15)	34.5	130.0	ISO (for pipe ISO 4200)	18.10	27.5	34.0
			SMS 3017/ISO 2852	-	-	-
			ASME BPE	-	-	-
			DIN 32676	16.00	27.5	34.0
3/4" (20)	32.0	150.0	ISO (for pipe ISO 4200)	23.70	43.5	50.5
			SMS 3017/ISO 2852	-	-	-
	34.5	150.0	ASME BPE	15.75	-	25.0
			DIN 32676	22.00	27.5	34.0
1" (25)	32.2	160.0	ISO (for pipe ISO 4200)	29.70	43.5	50.5
			SMS 3017/ISO 2852	22.60	43.5	50.5
	32.0	129.0	BS 4825/ASME BPE	22.10	43.5	50.5
			DIN 32676	26.00	43.5	50.5
1 1/4" (32)	35.8	180.0	ISO (for pipe ISO 4200)	38.40	43.5	50.5
			SMS 3017/ISO 2852	-	-	-
	-	-	ASME BPE	-	-	-
			DIN 32676	-	-	-
1 1/2" (40)	39.6	200.0	ISO (for pipe ISO 4200)	44.30	56.5	64.0
			SMS 3017/ISO 2852	35.60	43.5	50.5
	35.8	161.0	BS 4825/ASME BPE	34.80	43.5	50.5
			DIN 32676	38.00	43.5	50.5
2" (50)	45.7	230.0	ISO (for pipe ISO 4200)	55.10	70.5	77.5
			SMS 3017/ISO 2852	48.60	56.5	64.0
	39.6	192.0	BS 4825/ASME BPE	47.50	56.5	64.0
			DIN 32676	50.00	56.5	64.0
2 1/2" (65)	45.7	216.0	SMS 3017/ISO 2852	60.30	70.5	77.5
			BS 4825/ASME BPE	60.20	70.5	77.5
			DIN 32676	-	-	-
			-	-	-	

INLINE fitting dimensions [mm]

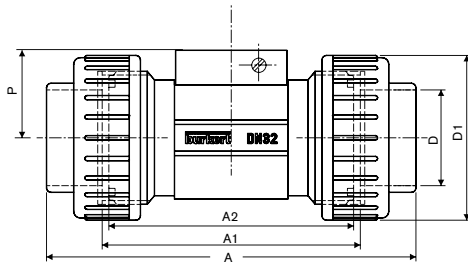
**Flange
Stainless steel (316L - 1.4404)**

**ANSI B16-5-1988
DIN 2633 (ISO PN16)
JIS 10K**



Orifice DN [mm]	P [mm]	DIN/ANSI [mm]	A JIS [mm]	NORM	L [mm]	Z [mm]	D2 [mm]	D1 [mm]	D [mm]	
1/2" (15)	34.5	130.0	152.0	DIN	23.5	4x14.0	45.0	65.0	95.0	
				ANSI			4x15.8	34.9	60.3	89.0
				JIS			4x15.0	51.0	70.0	95.0
3/4" (20)	32.0	150.0	178.0	DIN	28.5	4x14.0	58.0	75.0	95.0	
				ANSI			4x15.8	42.9	69.8	89.0
				JIS			4x15.0	56.0	75.0	95.0
1" (25)	32.2	160.0	216.0	DIN	28.5	4x14.0	68.0	85.0	95.0	
				ANSI			4x15.8	50.8	79.4	89.0
				JIS			4x19.0	67.0	90.0	95.0
1 1/4" (32)	35.8	180.0	229.0	DIN	31.0	4x18.0	78.0	100.0	95.0	
				ANSI			4x15.8	63.5	88.9	89.0
				JIS			4x19.0	76.0	100.0	95.0
1 1/2" (40)	39.6	200.0	241.0	DIN	36.0	4x18.0	88.0	110.0	95.0	
				ANSI			4x15.8	73.0	98.4	89.0
				JIS			4x19.0	81.0	105.0	95.0
2" (50)	45.7	230.0	267.0	DIN	41.0	4x18.0	102.0	125.0	95.0	
				ANSI			4x19.0	92.1	120.6	89.0
				JIS			4x19.0	96.0	120.0	95.0

**True union nut
with solvent or fusion spigot
PVC, PP, PVDF**

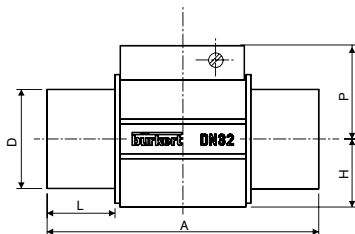


Orifice ADN [mm]	P	D1	A			D			A2	A1
			DIN	ANSI	JIS	(DIN)	(ANSI)	(JIS)		
1/4" (08)*	29.5		122	-	-	12	-	-	90	92
1/2" (15)	34.5	43	128	130.0	129	20	21.3	18.40	90	96
3/4" (20)	32.0	53	144	145.6	145	25	26.7	26.45	100	106
1" (25)	32.2	60	160	161.4	161	32	33.4	32.55	110	116
1 1/4" (32)	35.8	74	168	170.0	169	40	42.2	38.60	110	116
1 1/2" (40)	39.6	83	188	190.2	190	50	48.3	48.70	120	127
2" (50)	45.7	103	212	213.6	213	63	60.3	60.80	130	136

* Available only in PVC

Solvent or fusion spigot

PVC, PP, PVDF



Orifice DN [mm]	D [mm]	H [mm]	A [mm]		L [mm]		P [mm]
			PVC	PP PVDF	PVC	PP PVDF	
15	20	17.5	90	85	16.5	14	34.5
20	25	17.5	100	92	20.0	16	32.0
25	32	21.5	110	95	23.0	18	32.2
32	40	27.5	110	100	27.5	20	35.8
40	50	31.5	120	106	30.0	23	39.6
50	63	39.5	130	110	37.0	27	45.7

Combination with other devices (via plug-in contacts) - Operation and display

The flow sensor 8030 can be upgraded into a transmitter with a calibrated pulse output or a 4–20 mA output. To obtain such a transmitter, an additional IP65 housing is plugged on the sensor instead of the cable plug EN 175301-803.

A flow sensor Type 8030 with adjustable frequency output

consists of:

- a sensor electronic module Type SE30 (Hall or Hall "Low power" sensor versions)
- an Inline fitting S030 (DN6 - DN 65) (Refer to corresponding data sheet)
- a calibrated pulse output module Type 8021

This sensor requires an external power supply of 12–30 VDC. It is designed for connection to any system with open collector NPN or PNP frequency input.

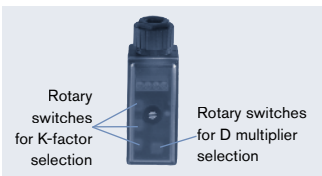
Specific data 8030 with calibrated frequency output

Supply voltage	12–30 VDC
Output signal	transistor NPN or PNP open collector max. 100 mA
Accuracy	0.1 %
Material of 8021 housing	PA

Type 8021 calibrated frequency output module

The operation is specified according to the following level:

- ▶ Parameter definition
 - K-factor
 - D multiplier



A flow sensor Type 8030 with 4-20 mA output

- consists of:
- a sensor electronic module Type SE30 (Hall "Low power" sensor version)
 - an Inline fitting S030 (DN6 - DN 65) (Refer to corresponding data sheet)
 - a 4–20 mA output module Type 8023
 - a programming module Type 1077–3 for the Type 8023

This sensor runs in 2-wire systems and requires an external power supply of 12–24 VDC.

Specific data 8030 with 4-20 mA output

Supply voltage	12–24 VDC
Output signal	4–20 mA
Load	max. 500 Ω at 12V; max. 1000 Ω at 24V
Accuracy	± 2 %
Material of 8023 housing	PA

Type 8023, 4–20 mA output module

The operation is specified according to two levels:

- ▶ Indication in operating mode
 - Flow
- ▶ Parameter definition
 - K-factor
 - Time unit
 - 4-20 mA measuring range

4-20 mA module (8023) with control unit (1077)*

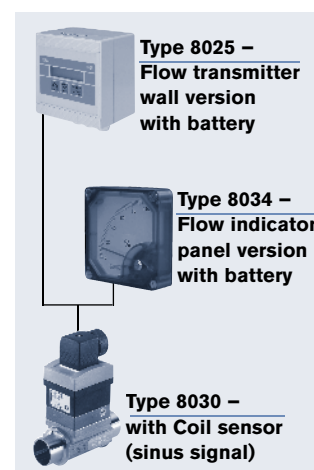
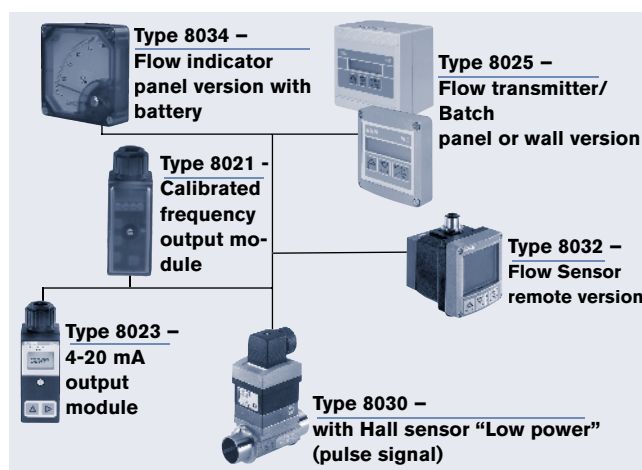
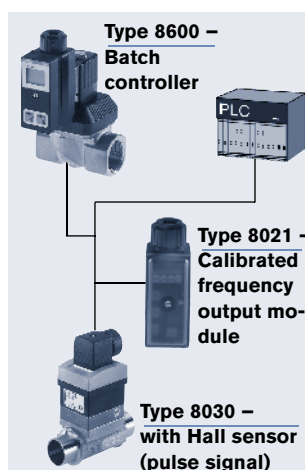


* The device works without the control unit. The control unit only enables to perform parameter definition.

Ordering chart for accessories for sensor type 8030 (to be ordered separately)

Specifications	Power supply	Connector	Item no.
Calibrated pulse output module type 8021	12–30 VDC	1 cable gland	418 895 P
4–20 mA output module type 8023	12–24 VDC	1 cable gland	130 428 V
Programming module type 1077–3 for the 4–20 mA output module type 8023	12–24 VDC	None	130 446 X

Interconnection possibilities with the sensor Type 8030



INLINE fitting part numbers

port connection	Specification		Item no. / Orifice										
	Seal	Standards	1/4" (DN6)	5/16" (DN 8)	1/2" (DN 15)	3/4" (DN 20)	1" (DN 25)	1 1/4" (DN 32)	1 1/2" (DN 40)	2" (DN 50)	2 1/2" (DN 65)		
Brass - with PVDF paddle-wheel - Temperature max. 212°F, 230 PSI (PN16)													
Internal thread	FKM	NPT	---	---	---	423 986	423 987	423 988	423 989	423 990	423 991	---	
		G	---	---	---	423 980	423 981	423 982	424 983	424 984	424 985	---	
		Rc (ISO7)	---	---	---	423 992	423 993	423 994	424 995	424 996	424 997	---	
External thread	FKM	NPT	---	---	449 182	---	---	---	---	---	---	---	
		G	552 557 ¹⁾	552 527 ²⁾	444 023	423 998	423 999	424 000	424 001	424 002	424 003	---	
		Rc (ISO7)	---	---	448 668	---	---	---	---	---	---	---	
Stainless steel - with PVDF paddle-wheel - Temperature max. 212°F, 230 PSI (PN16)													
Internal thread	FKM	NPT	---	---	---	424 010	424 011	424 012	424 013	424 014	424 015	---	
		G	---	---	---	424 004	424 005	424 006	424 007	424 008	424 009	---	
		Rc (ISO7)	---	---	---	424 016	424 017	424 018	424 019	424 020	424 021	---	
External thread	FKM	NPT	---	---	449 050	---	---	---	---	---	---	---	
		G	552 733 ¹⁾	552 559 ²⁾	444 029	424 022	424 023	424 024	424 025	424 026	424 027	---	
		Rc (ISO7)	---	---	448 669	---	---	---	---	---	---	---	
Weld ends	EPDM	SMS 1145	---	---	---	---	---	443 306	---	443 307	443 308	---	
		FKM ISO 4200	---	---	552 845 ³⁾	424 028	424 029	424 030	424 031	424 032	424 033	---	
		BS4825 / ASME BPE	---	---	---	---	443 369 ⁴⁾	443 370	443 371	443 372	443 373	443 374	
Tri-Clamp®	EPDM	SMS 3008	---	---	---	---	---	443 298	---	443 299	443 300	443 301	
		DIN 11850 Rg2	---	---	551 788	551 789	551 790	551 791	---	551 792	551 793	---	
		ISO (for pipe ISO4200)	---	---	---	424 034	424 035	424 036	424 037	424 038	424 039	---	
Flange	FKM	ANSI B16-5-1988	---	---	---	424 046	424 047	424 048	424 049	424 050	424 051	---	
		DIN 2633	---	---	---	424 040	424 041	424 042	424 043	424 044	424 045	---	
		JIS 10K	---	---	---	430 108	430 109	430 110	430 111	430 112	430 113	---	
		SMS3017/ISO2852	---	---	---	---	---	443 302	---	443 303	443 304	443 305	
Tri-Clamp®	EPDM	BS4825/ASME BPE	---	---	---	---	---	443 395	443 396	---	443 397	443 398	443 399
		SMS3017/ISO2852	---	---	---	---	---	---	443 387	---	443 388	443 389	443 390
		BS4825/ASME BPE*	---	---	---	---	---	443 400	443 717	---	443 718	443 719	443 720
Tri-Clamp®	EPDM	SMS3017/ISO2852*	---	---	---	---	---	---	---	443 388	443 389	443 390	
		DIN 32676	---	---	551 794	551 795	551 796	551 797	---	551 798	551 799	---	
		ANSI B16-5-1988	---	---	---	424 046	424 047	424 048	424 049	424 050	424 051	---	
Flange	FKM	DIN 2633	---	---	---	424 040	424 041	424 042	424 043	424 044	424 045	---	
		JIS 10K	---	---	---	430 108	430 109	430 110	430 111	430 112	430 113	---	
		ANSI B16-5-1988	---	---	---	424 046	424 047	424 048	424 049	424 050	424 051	---	
* internal surface finish Ra = 0.8 µm													
PVC - with PVDF paddle-wheel - Temperature max. 122°F, 140 PSI (PN10)													
True union - solvent spigot	FKM	North America version	---	---	---	423 950	423 951	423 952	423 953	423 954	423 955	---	
		ISO	---	---	444 022	423 938	423 939	423 940	423 941	423 942	423 943	---	
		Standard JIS	---	---	---	429 072	429 073	429 074	429 075	429 076	429 077	---	
Solvent ends	FKM	ISO	---	---	---	423 944	423 945	423 946	423 947	423 948	423 949	---	
External thread	FKM	G	552 560 ²⁾	444 025 ²⁾	---	---	---	---	---	---	---	---	
True union without spigot	FKM	---	---	---	---	430 734	430 735	430 736	430 737	430 738	430 739	---	
		EPDM	---	---	---	430 740	430 741	430 742	430 743	430 744	430 745	---	
PP (metric pipe only)- with PVDF paddle-wheel - Temperature max. 176°F, 140 PSI (PN10)													
True union - solvent spigot	FKM	ISO	---	---	---	423 956	423 957	423 958	423 959	423 960	423 961	---	
Solvent ends	FKM	ISO	---	---	---	423 962	423 963	423 964	423 965	423 966	423 967	---	
PVDF (metric pipe only)- with PVDF paddle-wheel - Temperature max. 212°F, 140 PSI (PN10)													
True union - solvent spigot	FKM	ISO	---	---	---	423 968	423 969	423 970	423 971	423 972	423 973	---	
Solvent ends	FKM	ISO	---	---	---	423 974	423 975	423 976	423 977	423 978	423 979	---	
External thread	FKM	G	---	---	---	444 028 ²⁾	---	---	---	---	---	---	

1) external thread 1/4" 2) external thread 1/2" 3) EPDM Seal 4) DN20 only available in ASME BPE

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8030 Systems

PVC Flow Sensor with Frequency Output 1/2" - 2"

PVC Body with True-Union Ends, PVDF Paddle, Ceramic Shaft and Bearings. Max operating is 140psi and 122°F. FKM is standard seal material. 1-33fps flow range capability	8030 with PNP or NPN Hall Signal output (frequency output) 0-200HZ
1/2" Flow Meter	System Part # US08402
3/4" Flow Meter	System Part # US08401
1" Flow Meter	System Part # US08400
1 1/4" Flow Meter	System Part # US08399
1 1/2" Flow Meter	System Part # US08398
2" Flow Meter	System Part # US08397

Brass Flow Sensor with Frequency Output 1/2" - 2"

Brass Body with NPT Ends, PVDF Paddle, Ceramic Shaft and Bearings. Max operating is 230psi and 212°F. FKM is standard seal material. 1-33fps flow range capability	8030 with PNP or NPN Hall Signal output (frequency output) 0-200HZ
1/2" Flow Meter	System Part # 424 468 Y
3/4" Flow Meter	System Part # 424 469 Z
1" Flow Meter	System Part # 424 470 W
1 1/4" Flow Meter	System Part # 424 471 K
1 1/2" Flow Meter	System Part # 424 472 L
2" Flow Meter	System Part # 424 473 M

PVDF Flow Sensor with Frequency Output 20mm to 63mm

PVDF Body with True-Union Fusion Spigot, PVDF Paddle, Ceramic Shaft and Bearings. Max operating is 140psi and 122°F. FKM is standard seal material. 1-33fps flow range capability	8030 with PNP or NPN Hall Signal output (frequency output) 0-200HZ
20mm Flow Meter	System Part # US08372
25mm Flow Meter	System Part # US08371
32mm Flow Meter	System Part # US08370
40mm Flow Meter	System Part # US08369
50mm Flow Meter	System Part # US08368
63mm Flow Meter	System Part # US08367

Stainless Steel Flow Sensor with Frequency Output 1/2" - 2"

SS Body with NPT Ends, PVDF Paddle, Ceramic Shaft and Bearings. Max operating is 230psi and 212°F. FKM is standard seal material. 1-33fps flow range capability	8030 with PNP or NPN Hall Signal output (frequency output) 0-200HZ
1/2" Flow Meter	System Part # 424 522 E
3/4" Flow Meter	System Part # 424 523 F
1" Flow Meter	System Part # 424 524 G
1 1/4" Flow Meter	System Part # 424 525 H
1 1/2" Flow Meter	System Part # 424 526 A
2" Flow Meter	System Part # 424 527 B

8023 Systems

PVC 4-20 mA Blind Two Wire Flow Transmitters 1/2" - 2"

PVC Body with True-Union Ends, PVDF Paddle, Ceramic Shaft and Bearings. Max operating is 140psi and 122°F. FKM is standard seal material. 1-33fps flow range capability	System part number below will include fitting, electronic sensor and transmitter (one programmer is needed for any number of transmitters selected below)
1/2" Blind 4-20mA flow transmitter	System Part # US08470
3/4" Blind 4-20mA flow transmitter	System Part # US08469
1" Blind 4-20mA flow transmitter	System Part # US08468
1 1/4" Blind 4-20mA flow transmitter	System Part # US08467
1 1/2" Blind 4-20mA flow transmitter	System Part # US08466
2" Blind 4-20mA flow transmitter	System Part # US08465
Programmer (needed for any multiple number of flow meters purchased above)	Part #130446X

Brass 4-20 mA Blind Two Wire Flow Transmitters 1/2" - 2"

Brass Body with NPT Ends, PVDF Paddle, Ceramic Shaft and Bearings. Max operating is 230psi and 212°F. FKM is standard seal material. 1-33fps flow range capability	System part number below will include fitting, electronic sensor and transmitter (one programmer is needed for any number of transmitters selected below)
1/2" Blind 4-20mA flow transmitter	System Part # US08414
3/4" Blind 4-20mA flow transmitter	System Part # US08413
1" Blind 4-20mA flow transmitter	System Part # US08412
1 1/4" Blind 4-20mA flow transmitter	System Part # US08411
1 1/2" Blind 4-20mA flow transmitter	System Part # US08410
2" Blind 4-20mA flow transmitter	System Part # US08409
Programmer (needed for any multiple number of flow meters purchased above)	Part #130446X

Stainless 4-20 mA Blind Two Wire Flow Transmitters 1/2" - 2"

SS Body with NPT Ends, PVDF Paddle, Ceramic Shaft and Bearings. Max operating is 230psi and 212°F. FKM is standard seal material. 1-33fps flow range capability	System part number below will include fitting, electronic sensor and transmitter (one programmer is needed for any number of transmitters selected below)
1/2" Blind 4-20mA flow transmitter	System Part # US08396
3/4" Blind 4-20mA flow transmitter	System Part # US08395
1" Blind 4-20mA flow transmitter	System Part # US08394
1 1/4" Blind 4-20mA flow transmitter	System Part # US08393
1 1/2" Blind 4-20mA flow transmitter	System Part # US08392
2" Blind 4-20mA flow transmitter	System Part # US08391
Programmer (needed for any multiple number of flow meters purchased above)	Part #130446X

8023 Systems (continued)

PVDF 4-20 mA Blind Two Wire Flow Transmitters 20mm to 63mm

PVDF Body with True-Union Fusion Spigot Ends, PVDF Paddle, Ceramic Shaft and Bearings. Max operating is 140psi and 212°F. FKM is standard seal material. 1-33fps flow range capability	System part number below will include fitting, electronic sensor and transmitter (one programmer is needed for any number of transmitters selected below)
20mm Blind 4-20mA flow transmitter	System Part # US08390
25mm Blind 4-20mA flow transmitter	System Part # US08389
32mm Blind 4-20mA flow transmitter	System Part # US08388
40mm Blind 4-20mA flow transmitter	System Part # US08387
50mm Blind 4-20mA flow transmitter	System Part # US08386
63mm Blind 4-20mA flow transmitter	System Part # US08385
Programmer (needed for any multiple number of flow meters purchased above)	Part #130446X

