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## FLOW TOTALIZER 8035

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## 1 INTRODUCTION

## FLOW TOTALIZER 8035

Dear Customer,

Congratulations on your purchase of our digital flow totalizer type 8035 INLINE.

**Before installing or mounting this device, please take our advice and read the entire manual thoroughly.**

This will enable you to fully profit from all of the advantages offered by this product.

### 1.1 Unpacking and Control

Please verify that the product is complete and free from any damage. The standard delivery must include:

- 1 Flow totalizer electronic module SE35
- 1 Instruction manual of the totalizer
- 1 Instruction manual of the fitting S030

Compare the type specification on the label to the following: 423921 D.  
If there is any loss or damage, please contact your local Burkert subsidiary.

### 1.2 About this Manual

This manual does not contain any warranty statement. Please refer to our general terms of sale and delivery.

Only properly-trained staff should install and/or repair this product. If difficulties should occur at the time of installation, please contact your nearest Burkert sales office for assistance.

### 1.3 User's Responsibility for Safety

Burkert manufactures a broad range of flow sensors. While each of these products is designed to operate in a wide variety of applications, it is the user's responsibility to select a totalizer model that is appropriate for the application, install it properly, and maintain all components. Special attention must be paid to the chemical resistance of the totalizer against the fluids which are directly contacting the product.



This symbol appears in the manual to call special attention to instructions that affect the safe installation, function and use of the product.

### 1.4 Electromagnetic compatibility

This device conforms to the EMC-Directive of the Council of European Communities 89/336/EEC.

## **2 DESCRIPTION**

## **FLOW TOTALIZER 8035**

### **2.1 Totalizer type specification**

**SE35 Flow indicator-totalizer, power supply 2 x 9 VCC**

**423921 D**

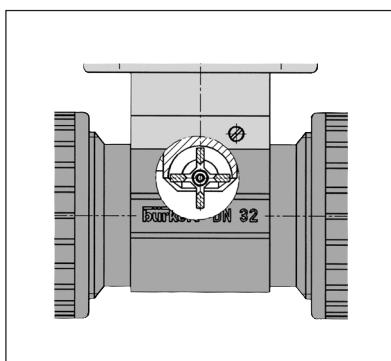
A flow totalizer type 8035 INLINE is consisting of a S030 fitting which houses the paddle-wheel and an electronic flow totalizer type SE35, specially designed to be installed on the fitting.

All informations relative to the fittings are in the instruction manual type S030.

### **2.2 Design and Measuring Principle**

#### **Design**

The flow indicator totalizer 8035 consists of an electronic IP65 housing Type SE35 set by quarter turn on the fitting S030. The electronic housing integrates the electronic board with display, programmation keys and also a transducer (coil). The paddle-wheel is mounted in the fitting.



#### **Measuring Principle**

When liquid flows through the pipe, 4 magnets inserted in the paddle-wheel set in rotation produce a measuring signal in the 8035 transducer (coil). The frequency modulated induced voltage is proportional to the flow velocity of the fluid. A conversion coefficient, specific to each pipe (size and material) enables the conversion of this frequency into flowrate. This coefficient (Factor-K in pulse/liter) is available in the instruction manual of the inline fitting (S030).

The electronic is supplied with two 9 VDC batteries.

The flow indicator totalizer can measure a flow rate as from 0.3 m/s (1.0 ft/s).

## 2 DESCRIPTION

## FLOW TOTALIZER 8035

### 2.3 Electronic module SE35: External dimensions

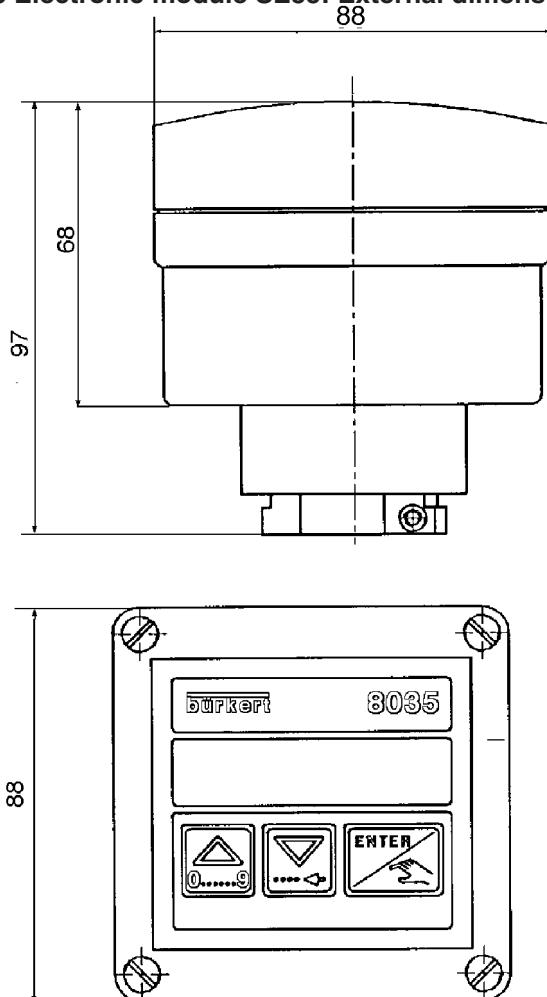


Fig. 1 Electronic enclosure SE35 external dimensions

### 2.4 Technical Data

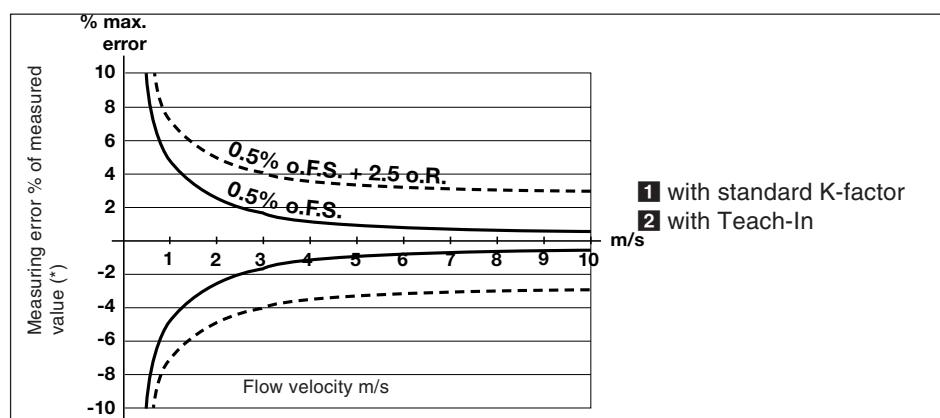
Pipe diameter	from DN 15 to DN 50 (1/2" to 2")
Measuring range	0.3 to 10 m/s (1.0 to 32.8 fps)
flow range	as from 3 l/min (DN15 pipe, 0.3 m/s flow velocity) as from 1.0 gpm (1/2" pipe, 1.0 fps flow velocity)
<b>Pressure class plastic fitting</b>	PN10
Fluid temperature max:	PVC: 50°C (140°F) ; PP: 80°C(176°F) ; PVDF: 100°C (212°F)

## 2 DESCRIPTION

## FLOW TOTALIZER 8035

<b>Pressure class metal fitting</b>	PN16
Fluid temperature max	100°C (212°F)
Ambient temperature	0 to 60°C (32 to 140°F)
Storage temperature	0 to 60°C (32 to 140°F)
Relative humidity	max 80 %
Enclosure	IP65
Accuracy	1. with individual calibration on site or Teach-In $\leq \pm 0.5\% \text{ o.F.S.} (*)$ 2. with K-factor standard $\leq \pm (0.5\% \text{ o.F.S.} + 2.5\% \text{ o.R.}) (*)$
Linearity	$\leq \pm 0.5\% \text{ o. F.S.} (*)$
Repeatability	$\leq 0.4\% \text{ o.R.} (*)$
Display	15 x 60 mm LCD 8 digits, alphanumeric, 15 segments, 9 mm high
<b>Totalizer max values:</b>	
Liters	9 999 999 L
m <sup>3</sup>	999 999 m <sup>3</sup>
US Gal	999 999 GA
Imp Gal	999 999 GA
Sensor holder	PVDF, PP, PVC, SS 316L (1.4404) , Brass
Paddle-wheel	PVDF
Axis and bearing	ceramic
O-rings	FPM
Electronics housing	PC
Front plate foil	Polyester
Power supply	2 batteries 9 VDC (type 6LR61/PP3). Autonomy min. 2 years at 20°C

(\*) Under reference conditions i.e. measuring fluid water, ambient and water temperature 20°C, applying the minimum inlet and outlet pipe straights, matched pipe dimensions.  
 o.F.S. = of standard Full Scale (10 m/s) - o.R. = of Reading



Measuring error with/without Teach-In (cf § 2.4)

## 3 INSTALLATION

## FLOW TOTALIZER 8035

### 3.1 Installation Guidelines



The flow totalizer can only be used to measure pure and water resembling fluids (solids content  $\leq 1\%$ , viscosity max. 300 cSt with on-line calibration).

Observe pressure-temperature dependence according to the respective fitting materials.

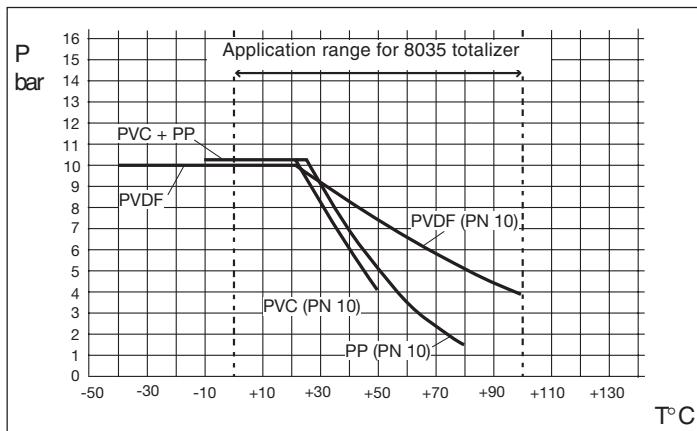


Fig. 2. Pressure-Temperature-Diagram

#### Installation Guidelines

The pipe must be completely filled with the liquid, i.e. air bubbles must not be present. The flow sensor is not designed for gas flow measurement.

The device must be protected from constant heat radiation and other environmental influences, such as direct exposure to sunlight.

The recommended upstream and downstream straight pipe length should respect  $10x D$  in and  $3x D$  out. According to pipe's design, necessary distances can be bigger or use a flow straightener to obtain the best accuracy. For more informations please refer to EN ISO 5167-1.

The flow sensor can be installed in either horizontal or vertical pipe.

The suitable pipe size is selected using the diagram on the end pages (G8-G9). Pressure and temperature ratings must be respected according to the selected fitting material. (see Fig. 2)

### **3 INSTALLATION**

### **FLOW TOTALIZER 8035**

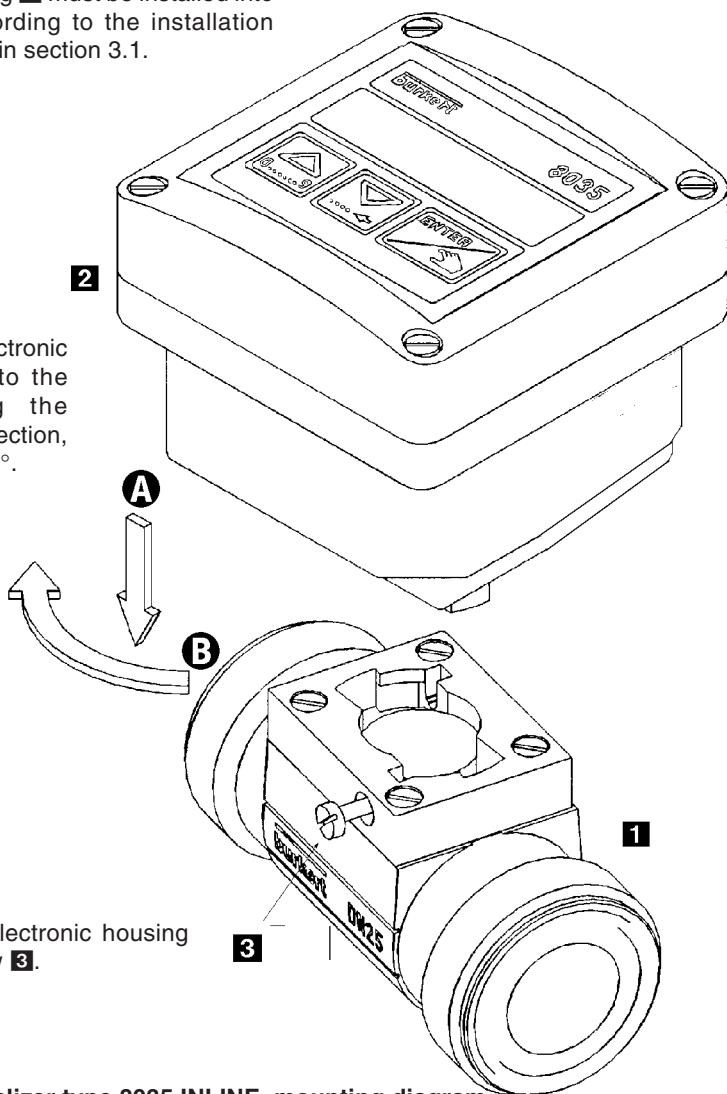
#### **3.2 Process mounting**

The flow sensor electronic SE35 INLINE can be easily installed in pipes using the specially designed fitting system S030.

- 1.The S030 fitting **1** must be installed into the pipe according to the installation specifications in section 3.1.

- 2.Fasten the electronic housing **2** to the fitting using the bayonet connection, and turn by 30°.

- 3.Tighten the electronic housing with the screw **3**.



**Fig. 3 Flow totalizer type 8035 INLINE mounting diagram**

## **3 INSTALLATION**

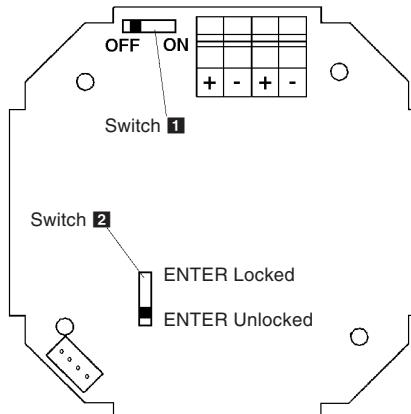
## **FLOW TOTALIZER 8035**

### **3.3 Measuring start-up**

Remove the cover and put the switch **1** in position "ON" (see fig. 4).

### **3.4 Locking the ENTER key**

The ENTER key can be locked to prevent access to the calibration menu, especially the reset of totalizers. Remove the cover and put the switch **2** in position 'ENTER locked' (see fig.4).

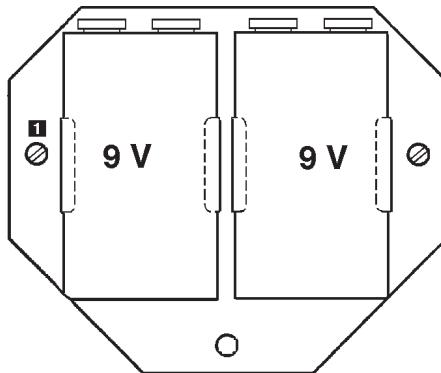


**Fig. 4 Totalizer SE35 switches**

### **3.5 Replacement of batteries**

Remove the cover. The two batteries are on the aluminium plate. Remove the plate by unscrewing screws **1** (see fig. 5). Insert new batteries and reassemble the totalizer.

**Warning!:** To keep the totalized amounts and the calibration data, change the batteries one at a time, as soon as blinking occurs and, before the "LOWBATT" message appears.



**Fig. 5 Totalizer power supply plate**

## **4 OPERATION**

## **FLOW TOTALIZER 8035**

**The operation is classified according to two levels.**

### **A) Display**

This menu displays flow, main totalizer and daily totalizer. The daily totalizer can also be reset in this menu.

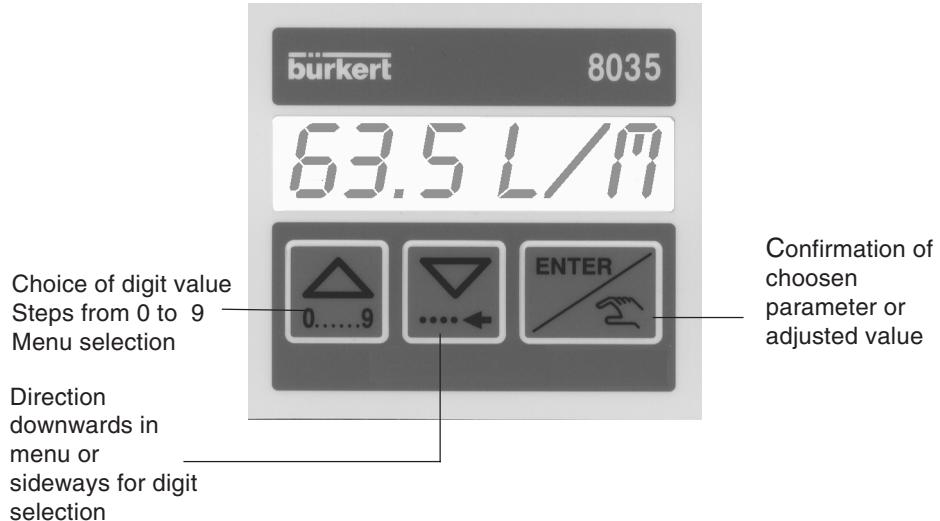
### **B) Parameter Definition**

All the necessary settings, such as the language, engineering units, K-factor and filter are carried through in this menu.

The ENTER key can be locked. (see § 3.4)

Here, the main, as well as the daily totalizer are simultaneously reset.

### **4.1 Totalizer Operating and Control Elements**

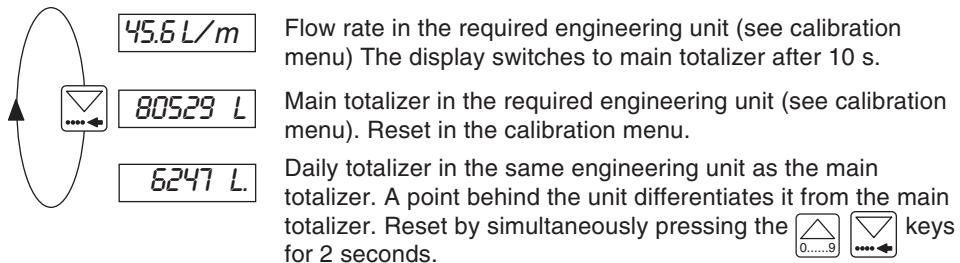


## 4 OPERATION

## FLOW TOTALIZER 8035

### 4.2 Operation Mode Display

The following variables are displayed in the operation mode:



### 4.3 Calibration Mode

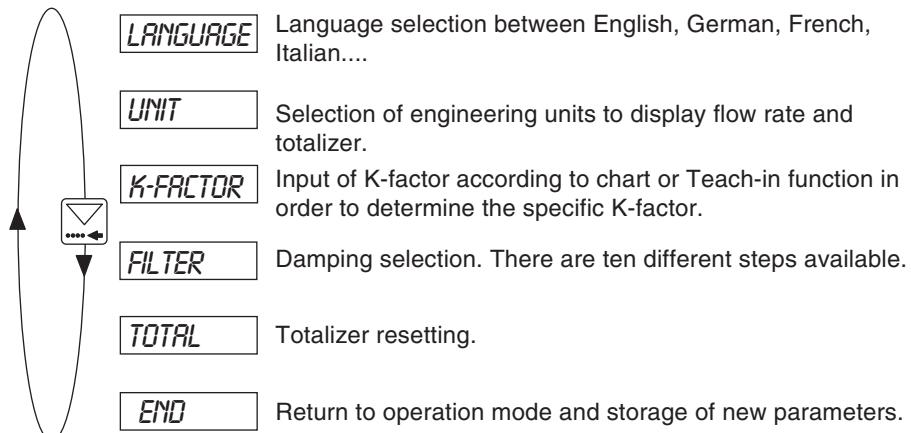
Press



select the flow display mode then

simultaneously for 5 seconds

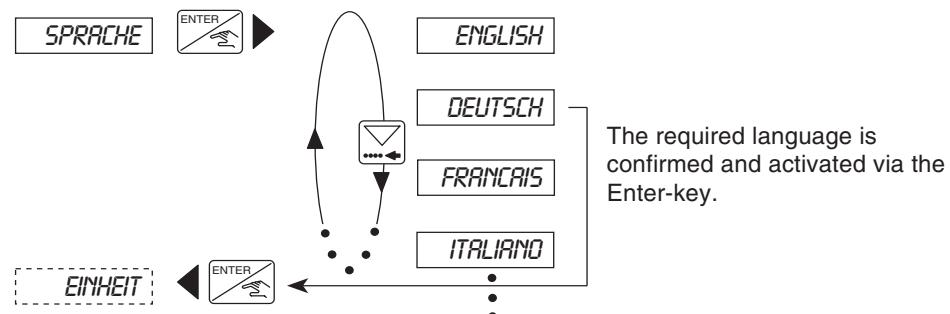
The following variables can be set in the parameter definition menu:



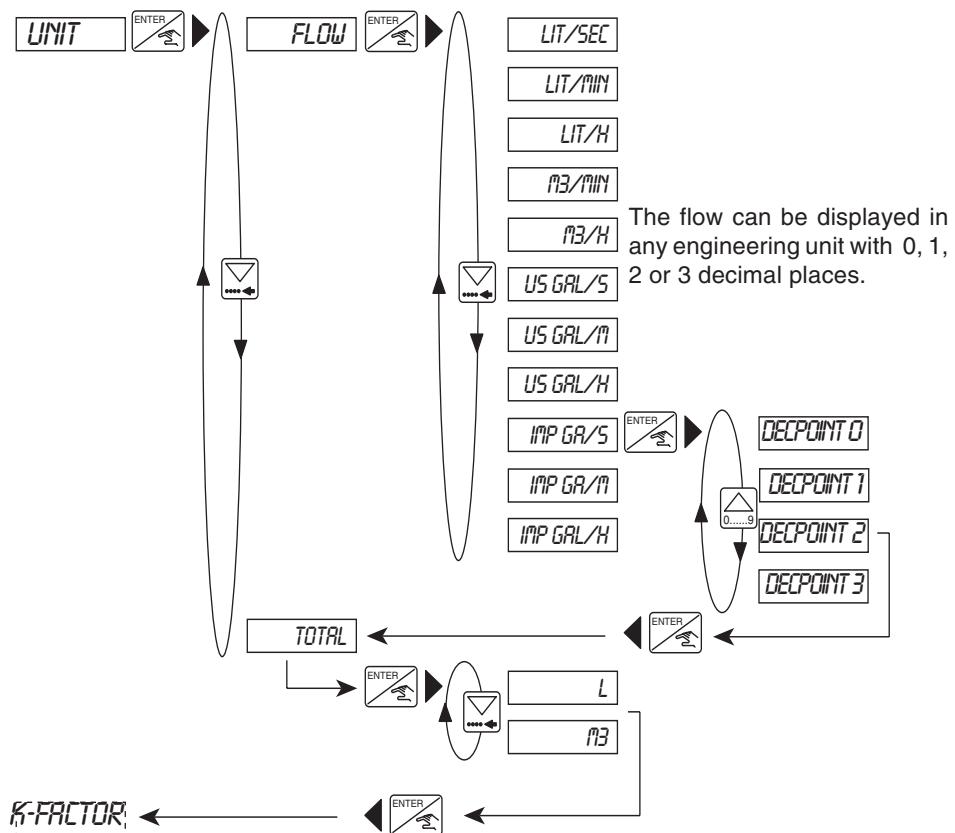
## 4 OPERATION

## FLOW TOTALIZER 8035

### 4.3.1 Language



### 4.3.2 Engineering Units



**Note:** Return to the main menu only via the sub-menu "TOTAL".

## 4 OPERATION

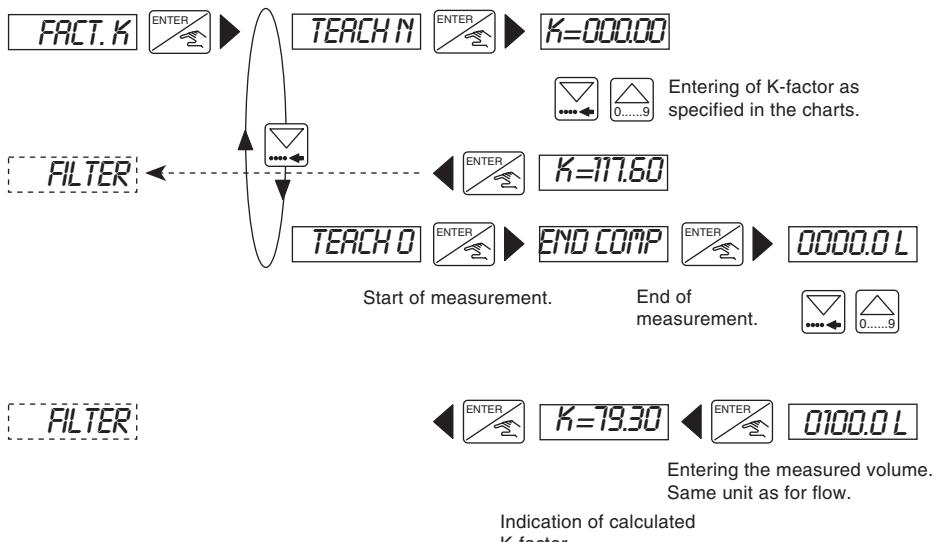
## FLOW TOTALIZER 8035

### 4.3.3 K-Factor

The K-factor of the fitting is entered in this menu (refer to the instruction manual of fitting type S030). The "Teach in" function allows the practical determination of the specific K-factor. The user only needs to run a known volume through his system.

**Example:** In order to determine a volume as accurately as possible, the user will fill a tank of 100 liters. When the message "TEACH YES" appears, he presses the ENTER key to start the measuring procedure. The message "FILL END" (end of filling) will appear. He then switches on a pump or opens a valve. As soon as the tank is empty, he switches off the pump or closes the valve. Pressing ENTER ends the measurement. The user will then be asked to enter the volume (100 liters). The calculated K-factor is displayed after confirmation.

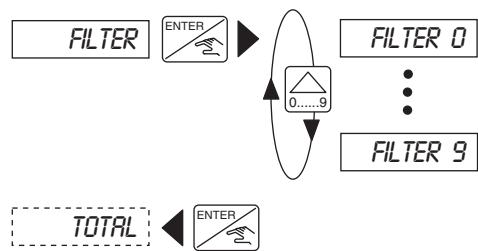
**Note:** The device uses the last K-factor entered or determined .



## FLOW TOTALIZER 8035

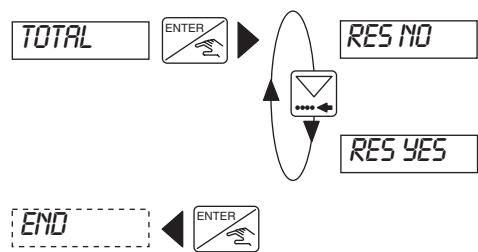
### 4.3.4 Filter function

The damping is specified in this sub-menu. It prevents fluctuations of the display. There are ten levels available. The first level ("FILTER 0") has no damping effect.



### 4.3.5 Totalizer

The main and daily totalizers are reset in this menu. The reset procedure only starts when ENTER is pressed, at the "END" position in the parameter definition menu.



## 5 MAINTENANCE

## FLOW TOTALIZER 8035

### 5.1 Maintenance

In correct installation conditions the flow sensors and totalizers are maintenance-free. If contamination or clogging should occur during operation, the transmitter (paddle-wheel, bearing) can be cleaned with water or another appropriate cleaning agent.

The message "*ERROR*" on the display indicates that calibration data has been lost. By pressing ENTER, the user access to operation menu but the device works with the factory settings. The transmitter must be re-calibrated. If this message appears more often, please return the product to the factory.

When the batteries become low, the display blinks (flow display and totalizer) but the device still works. A replacement of batteries must be planned. The message "LOW BATT" appears only when the batteries are too low to ensure function of the device.

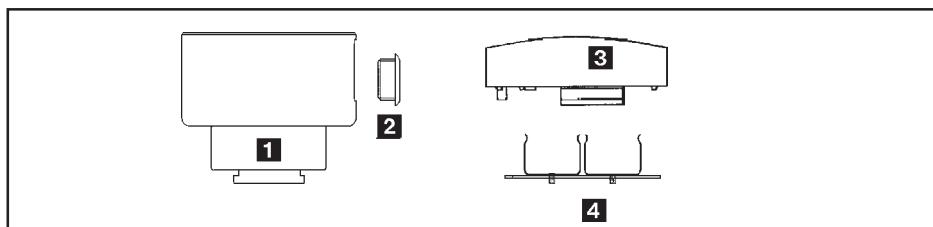
### 5.2 Configuration of flow indicator-totalizer type SE35 at delivery

Language:	English
Unit flow:	L/s
Unit totalizer:	L
Decimal point:	2
K-factor:	46,6
Filter:	Filter 2

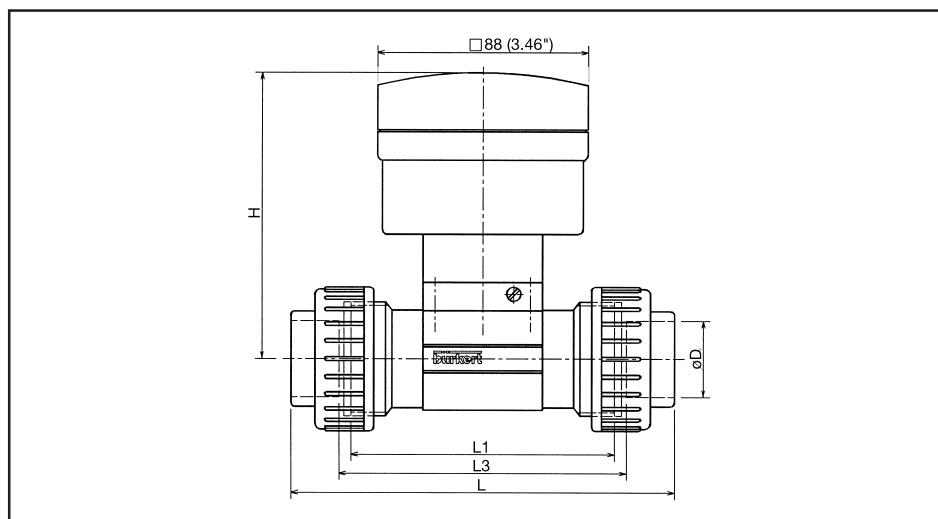
### 5.3 Spare Parts List

#### Totalizer electronic module type SE35 INLINE.

Position	Specification	Order N°.
1	Sensor housing with 1 flat packing	419334U
2	Cable plug for PG 13.5	416804J
3	Cover with screws, sheeting and printed circuit board Totalizer with batteries, and software version F2	425433E
4	Power supply board 9 VCC (batteries adapter) Instruction manual	419296X 419745G
	Instruction manual Fitting Typ S030	429319F



## **DIMENSIONS-ABMESSUNGEN FLOW TOTALIZER 8035**



PVC; PP; PVDF

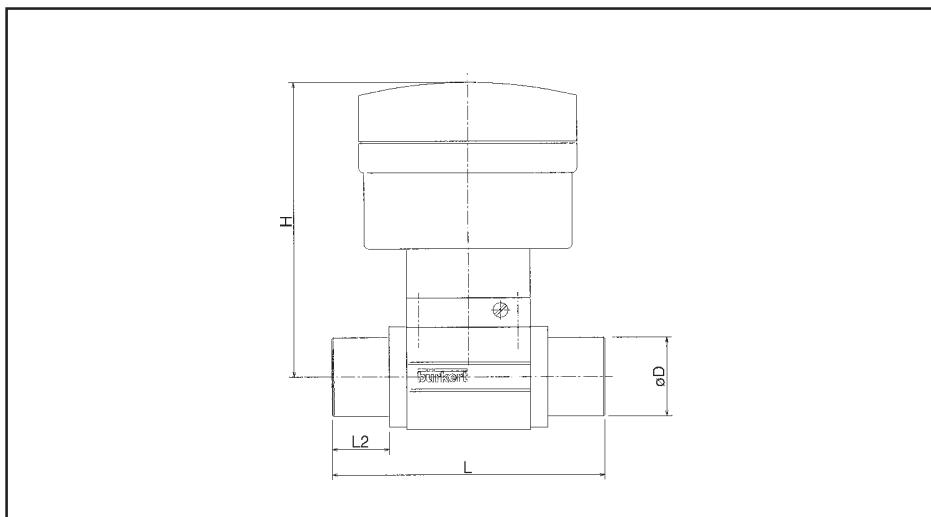
Überwurfmutter; Klebe- oder Schweißmuffen

True union connection; solvent/fusion spigot

Raccord Union; embout à coller/à souder

Fitting	DN	Ø C	L	L1	L3	H
DIN [mm]	15	20	128	90	96	122
ANSI ["]	1/2	.79	5.04	3.55	3.78	4.81
DIN [mm]	20	25	144	100	106	119
ANSI ["]	3/4	.99	5.67	3.94	4.18	4.69
DIN [mm]	25	32	160	110	116	120
ANSI ["]	1	1.26	6.30	4.33	4.57	4.73
DIN [mm]	32	40	168	110	116	123
ANSI ["]	1 1/4	1.58	6.62	4.33	4.57	4.85
DIN [mm]	40	50	188	120	127	127
ANSI ["]	1 1/2	1.97	7.41	4.73	5.00	5.00
DIN [mm]	50	63	212	130	136	134
ANSI ["]	2	2.48	8.35	5.12	5.36	5.28

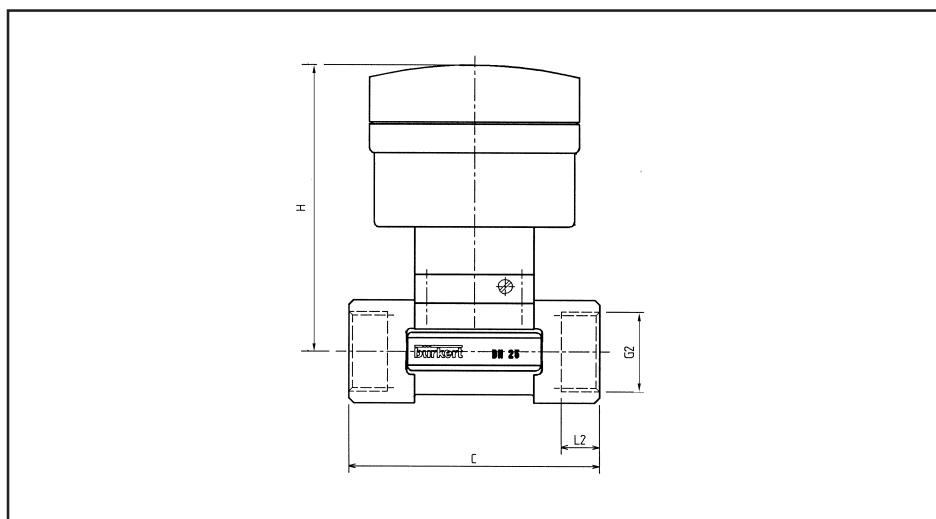
## **DIMENSIONS-ABMESSUNGEN FLOW TOTALIZER 8035**



**PVC; PP; PVDF**  
**Klebeende oder Schweißende**  
**Solvent joint or weld-end connection**  
**Embout à coller ou à souder**

Fitting	DN	Ø D	L		L2		H
			PVC	PP/PVDF	PVC	PP/PVDF	
DIN [mm]	15	20	90	85	16,5	14	122
ANSI ["]	1/2	.79	3.54	3.35	.65	.55	4.81
DIN [mm]	20	25	100	92	20	16	119
ANSI ["]	3/4	.99	3.94	3.62	.79	.63	4.69
DIN [mm]	25	32	110	95	23	18	120
ANSI ["]	1	1.26	4.33	3.74	.91	.71	4.73
DIN [mm]	32	40	110	100	27,5	20	123
ANSI ["]	1 1/4	1.58	4.33	3.94	1.08	.71	4.85
DIN [mm]	40	50	120	106	30	23	127
ANSI ["]	1 1/2	1.97	4.72	4.17	1.18	.91	5.00
DIN [mm]	50	63	130	110	37	27	134
ANSI ["]	2	2.48	5.12	4.33	1.46	1.06	5.28

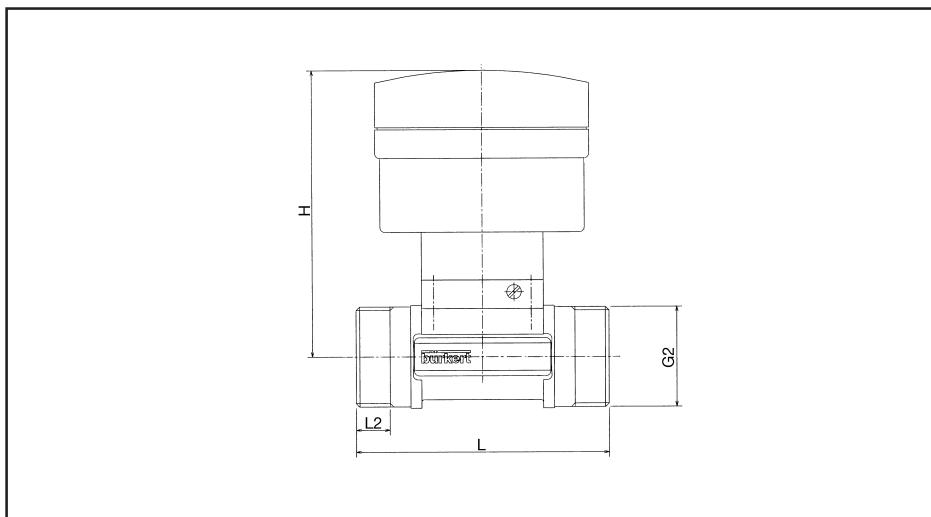
## **DIMENSIONS-ABMESSUNGEN FLOW TOTALIZER 8035**



**Edelstahl; Messing; Innengewinde**  
**Stainless-steel; brass; internal thread**  
**Acier inox; laiton; taraudage**

DN	G2	C	L2	H
15	G 1/2"	85	16.0	122
15 / 1/2"	Rc 1/2"	85	15.0	122
15 / 1/2" ANSI ["]	NPT 1/2"	3.35	0.67	4.81
20	G 3/4"	95	17.0	119
20 / 3/4"	Rc 3/4"	95	16.3	119
20 / 3/4" ANSI ["]	NPT 3/4"	3.74	0.72	4.69
25	G 1"	105	23.5	120
25 / 1"	Rc 1"	105	18.0	120
25 / 1" ANSI ["]	NPT 1"	4.14	0.71	4.73
32	G 1 1/4"	120	23.5	123
32 / 1 1/4"	Rc 1 1/4"	120	21.0	123
32 / 1 1/4" ANSI ["]	NPT 1 1/4"	4.73	0.83	4.85
40	G 1 1/2"	130	23.5	127
40 / 1 1/2"	Rc 1 1/2"	130	19.0	127
40 / 1 1/2" ANSI ["]	NPT 1 1/2"	5.12	0.79	5.00
50	G 2"	150	27.5	134
50 / 2"	Rc 2"	150	24.0	134
50 / 2" ANSI ["]	NPT 2"	5.91	0.95	5.28

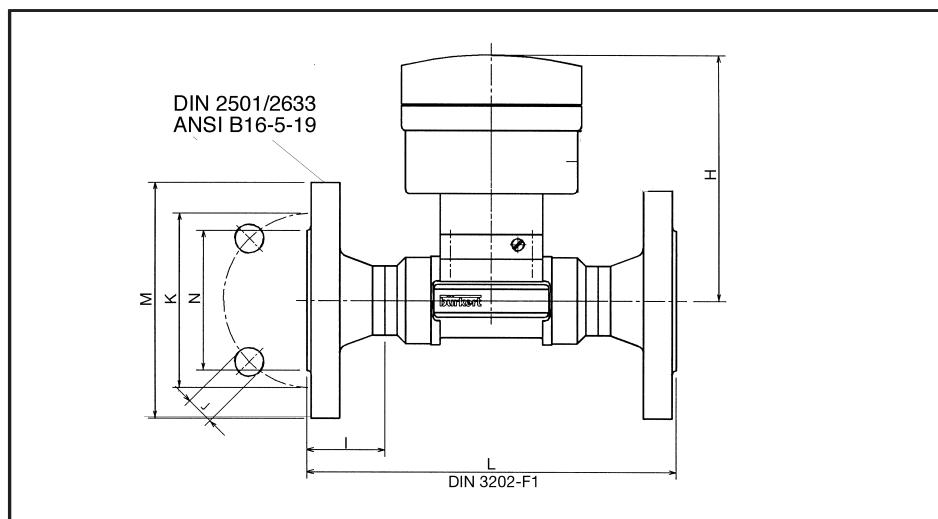
## **DIMENSIONS-ABMESSUNGEN FLOW TOTALIZER 8035**



**Edelstahl; Messing; Aussengewinde**  
**Stainless-steel; brass; external thread**  
**Acier inox; laiton; filetage externe**

Fitting	DN	G2	L	L2	H
DIN [mm]	15	G 3/4"	84	11,5	122
ANSI ["]	1/2	G 3/4"	3.31	0.45	4.81
DIN [mm]	20	G 1"	94	13,5	119
ANSI ["]	3/4	G 1"	3.70	0.53	4.69
DIN [mm]	25	G 1 1/4"	104	14	120
ANSI ["]	1	G 1 1/4"	4.09	0.55	4.73
DIN [mm]	32	G 1 1/2"	119	18	123
ANSI ["]	1 1/4	G 1 1/2"	4.69	0.71	4.85
DIN [mm]	40	M 55x2	129	19	127
ANSI ["]	1 1/2	M 55x2	5.08	0.75	5.00
DIN [mm]	50	M 64x2	149	20	134
ANSI ["]	2	M 64x2	5.87	0.78	5.28

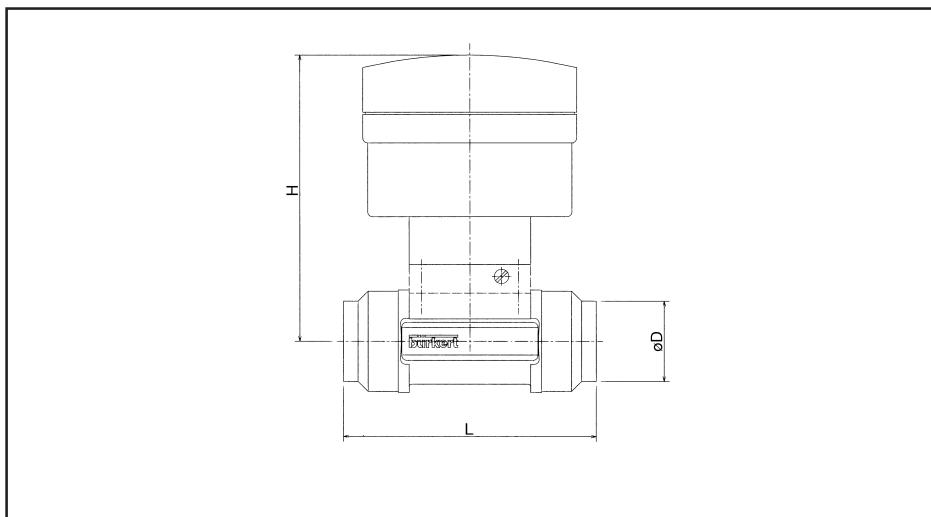
## **DIMENSIONS-ABMESSUNGEN FLOW TOTALIZER 8035**



**Edelstahl mit Flanschen**  
**Stainless-steel with flanges**  
**Acier inox; raccord à brides**

Fitting	DN	I	J (4 x Ø)	K	M	N	L	H
DIN [mm]	15	23.5	4 x 14.0	65.0	95.0	45.0	130	122.0
ANSI ["]	1/2	.93	4 x .62	2.38	3.51	1.38	5.12	4.81
DIN [mm]	20	28.5	4 x 14.0	75.0	105.0	58.0	150	119.0
ANSI ["]	3/4	1.12	4 x .62	2.75	3.90	1.69	5.91	4.69
DIN [mm]	25	28.5	4 x 14.0	85.0	115.0	68.0	160	120.0
ANSI ["]	1	1.12	4 x .62	3.13	4.26	2.00	6.30	4.73
DIN [mm]	32	31.0	4 x 18.0	100.0	140.0	78.0	180	123.0
ANSI ["]	1 1/4	1.22	4 x .75	3.50	4.61	2.50	7.09	4.85
DIN [mm]	40	36.0	4 x 18.0	110.0	150.0	88.0	200	127.0
ANSI ["]	1 1/2	1.42	4 x .75	3.88	5.00	2.88	7.88	5.00
DIN [mm]	50	41.0	4 x 18.0	125.0	165.0	102.0	230	134.0
ANSI ["]	2	1.62	4 x .75	4.75	5.99	4.02	9.06	5.28

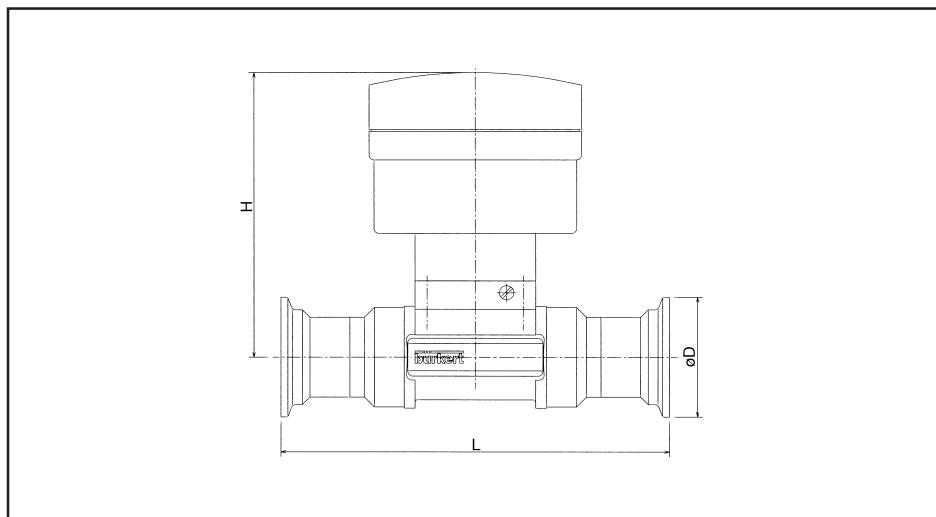
## **DIMENSIONS-ABMESSUNGEN FLOW TOTALIZER 8035**



**Edelstahl Schweissende  
Stainless-steel to weld  
Acier inox; raccord à souder**

Fitting	DN	L	Ø D	H
DIN [mm]	15	84	21,3	122
ANSI ["]	1/2	3.31	0.84	4.81
DIN [mm]	20	94	26,9	119
ANSI ["]	3/4	3.70	1.06	4.69
DIN [mm]	25	104	33,7	120
ANSI ["]	1	4.09	1.33	4.73
DIN [mm]	32	119	42,4	123
ANSI ["]	1 1/4	4.69	1.67	4.85
DIN [mm]	40	129	48,3	127
ANSI ["]	1 1/2	5.08	1.90	5.00
DIN [mm]	50	149	60,3	134
ANSI ["]	2	5.87	2.37	5.28

## **DIMENSIONS-ABMESSUNGEN FLOW TOTALIZER 8035**

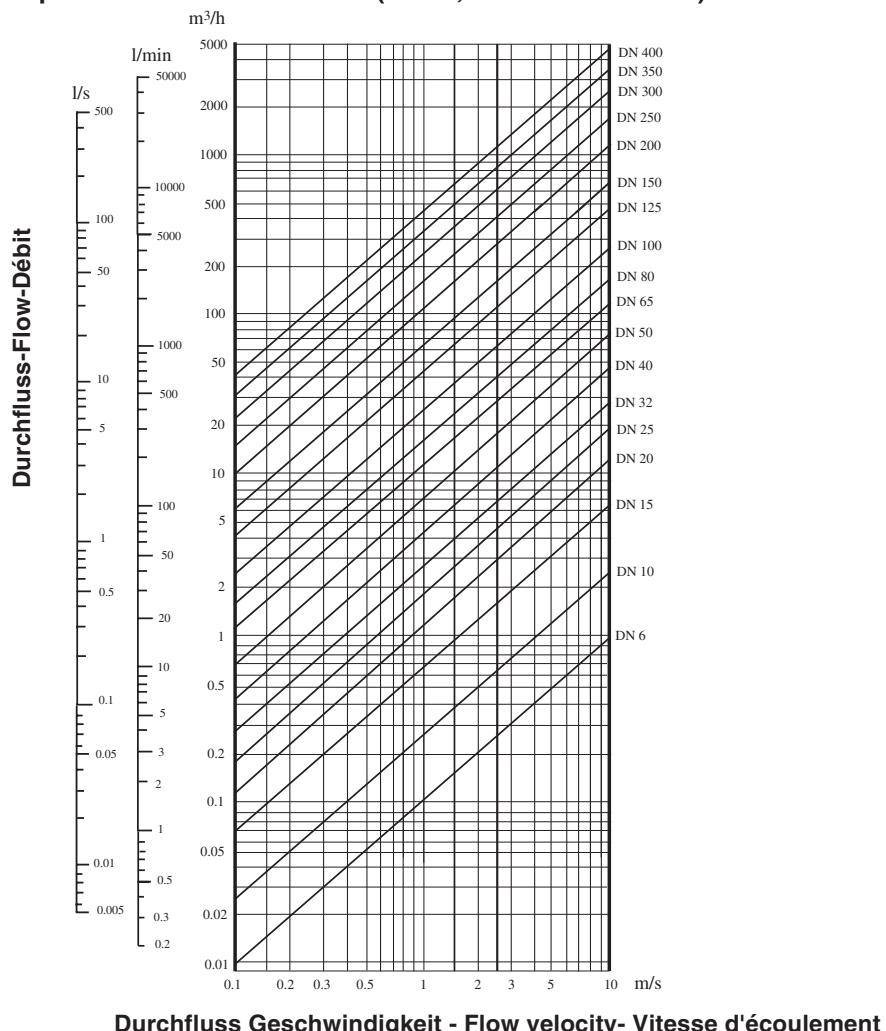


**Edelstahl mit Triclamp**  
**Stainless-steel with tricclamp**  
**Acier inox; tricclamp**

Fitting	DN	L	Ø D	H
DIN [mm]	15	130	34	122
ANSI ["]	1/2	5.12	1.34	4.81
DIN [mm]	20	150	50,5	119
ANSI ["]	3/4	5.91	1.99	4.69
DIN [mm]	25	160	50,5	120
ANSI ["]	1	6.30	1.99	4.73
DIN [mm]	32	180	50,5	123
ANSI ["]	1 1/4	7.09	1.99	4.5
DIN [mm]	40	200	64	127
ANSI ["]	1 1/2	7.87	2.52	5.00
DIN [mm]	50	230	77,5	134
ANSI ["]	2	9.06	3.07	5.28

## **ANHANG-APPENDIX-ANNEXE A FLOW TOTALIZER 8035**

- 1) Durchfluss-Diagramm (L/min, DN in Zoll und m/s)
- 1) Flow Chart (L/min, DN in inch and m/s)
- 1) Abaque débit/vitesse/diamètre (L/min, DN en inch et m/s)



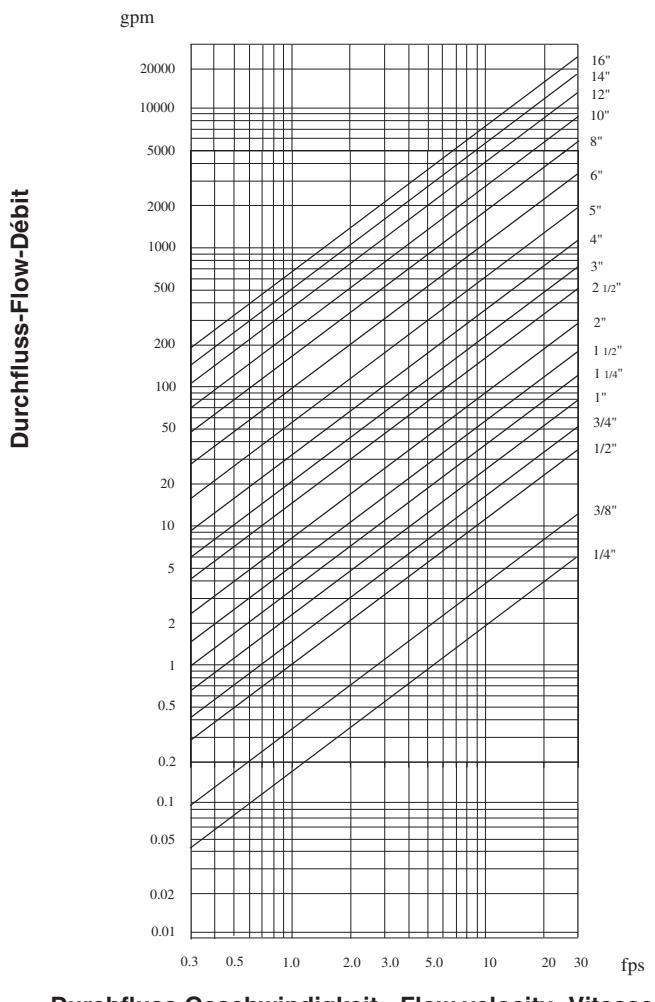
**Auswahlbeispiel:**  
**Selection example:**  
**Exemple:**

**Vorgabe - Specifications - Données:**  
Durchfluss-Flow-Débit: 10 m³/h  
Ideale Durchflussgeschwindigkeit: 2...3 m/s  
Ideal flow velocity: 2...3 m/s  
Vitesse optimale du fluide: 2...3 m/s

Erforderliche Nennweite - Required orifice - Dimension requise : DN 40.

## **ANHANG-APPENDIX-ANNEXE A FLOW TOTALIZER 8035**

- 2) Durchfluss-Diagramm (US-gallon/min, DN in Zoll und fps)
- 2) Flow Chart (US-gallon/min, DN in inch and fps)
- 2) Abaque débit/vitesse/diamètre (US-gallon/min, DN en inch et ft/s)



**Auswahlbeispiel:**  
**Selection example:**  
**Exemple:**

**Vorgabe -Specifications - Données:**  
Durchfluss-Flow-Débit: 50 gpm  
Ideale Durchflussgeschwindigkeit: 8 fps  
Ideal flow velocity: 8 fps  
Vitesse optimale du fluide: 8 fps

**Erforderliche Nennweite - Required orifice - Dimension requise : 1 1/2"**

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