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Positive displacement flowmeter

- Flow rate, 2 totalized volumes shown on display
- Automatic calibration: Teach-In
- Simulation: all output signals provided without the need for real flow

Type 8075T can be combined with...





an On/Off control loop.

TopControl



Type 8792Continuous
SideControl

This positive displacement flowmeter with display is designed for use in slightly viscous fluid like glue, honey or oil and specially to switch a valve and to establish a monitoring system or

The flowmeter is made of a compact sensor fitting (S070) and an electronic module (SE35) quickly and easily connected together by a Quarter-Turn.



Type 8644-P AirLINE

Valve island with electronic I/O

General data			
Compatibility	With sensor fittings S070 (see corresponding data sheet)		
Materials Housing, cover, lid, nut Front panel foil / Screws Cable glands Wetted parts materials Sensor fitting Rotor Shaft / Seal	PC Polyester / Stainless steel PA Aluminium, stainless steel (316F/1.4401) PPS, Aluminium, stainless steel (316F/1.4401) Stainless steel / FKM or FEP/PTFE		
Display	15x60 mm, 8-digit LCD, alphanumeric, 15 segments, 9 mm high		
Electrical connections	Cable glands M20x1.5		
Voltage supply cable	max. 50 m, shielded, 1.5 mm ² max. cross-section		

Complete device data (sensor fitting + electronic module)		
Pipe diameter	DN15 to DN100	
Measuring range	2 to 1200 l/min (0.26 to 320 gpm) for viscosity > 5 mPa.s 3 to 616 l/min (0.78 to 320 gpm) for viscosity < 5 mPa.s	
Medium temperature		
Aluminium body	0 to 80°C (32°F to 176°F)	
Stainless steel body	0 to 100°C (32°F to 212°F)	
Medium pressure max.		
DN15	55 bar (798 PSI) (threaded process connection)	
DN25	55 bar (798 PSI) 1)	
DN40, DN50 / DN80 / DN100	18 bar (261 PSI) / 12 bar (174 PSI) / 10 bar (145 PSI)	
Viscosity	1 Pa.s max. (higher on request)	
Accuracy	± 0.5% of Reading	
Programming mode	Threshold, window or hysteresis	
Repeatability	≤ 0.03% of Reading	

¹⁾ or in accordance to the value of the used flanges



Electrical data	
Operating voltage	115/230 V AC 50/60 Hz
	(see technical specifications 115/230 V AC)
Current consumption with sensor	
(without consumption of pulse output)	≤ 25 mA
Output	
Signal current	4 20 mA (2-wire)
	max. loop impedance : 800 Ω
Pulse	Polarized, potential free, 5 36 V DC; 100 mA,
r dioo	protected, line drop at 100 mA: 2.5 V DC
Technical specifications 115/23	O V AC
Voltage supply available	27 V DC regulated - max. current: 125 mA
inside the device	integrated protection: fuse 125 mA temporised
	power: 3 VA
Environment	
Height above the sea	max. 2000 m
Ambient temperature	0 to + 60°C (32°F to 140°F) (operating and storage)
Relative humidity	≤ 80%, without condensation
Standards, directives and appr	ovals
Protection class	IP65 with cable or screws plug mounted and tightened
Standard and directives C€	
EMC	EN 61000-6-3, EN 61000-6-2
Pressure (Sensor fitting S070, DN15 to	Complying with article 3 of chap. 3 from 97/23/CE di-
DN100, in aluminium or stainless steel)	rective.* (without CE mark)
Security	EN 61010-1

EN 60068-2-6

EN 60068-2-27

* 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

Operation and display

Vibration

Shock

The device can be calibrated by means of the K-factor, or via the Teach-In function. User adjustments such as measuring range, engineering units, pulse output and filter are carried out on site.

The operation is specified according to three levels:

Indication in operating mode/display	Parameter definition	Test
- flow rate - output current - main totalizer - daily totalizer with reset function	- language - engineering units - K-factor / Teach-In function - measuring range 4 20 mA - pulse output - filter - reset main totalizer	- alteration of basic adjust- ment (offset, span) - frequency test of sensor - flow simulation



Design and principle of operation



The 8075 flowmeter is built up with an SE35 electronic module associated to a sensor fitting S070 with integrated measurement oval rotor. The connection is made by means of a Quarter-Turn. The output signals are provided via two cable glands.

If liquid flows through the pipe the rotor turns. This rotation produces a measuring signal in the transducer. The frequency is proportional to the flow of the fluid.

A conversion coefficient (K factor, available in the instruction manual of the sensor fitting S070), specific to each pipe (size and material) enables the conversion of this frequency into a flow rate.

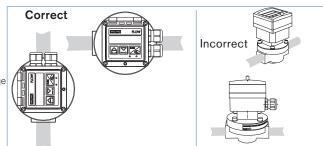




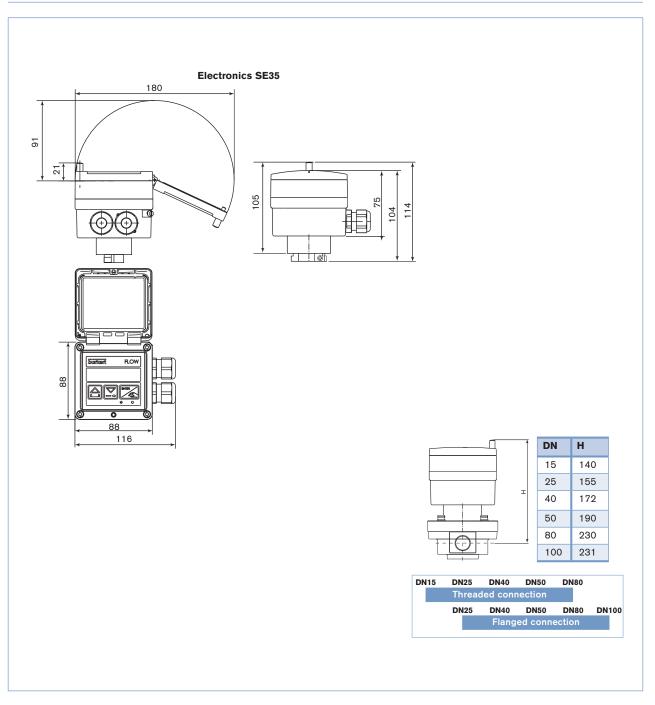
Installation

The sensor fitting can be installed in any orientation as long as **the rotor shafts** are always in a horizontal plane (see figures to the right) and **the** flow of the fluid is in the direction of the arrow marked on the body.

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.



Dimensions [mm]



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Ordering information for compact flowmeter Type 8075

A flowmeterType 8075 consists of an electronics Type SE35 and a Bürkert INLINE sensor fitting Type S070

The following information is necessary for the selection of a complete device:

- •Item no. of the desired electronics Type SE35 (see Ordering chart, below)
- •Item no. of the selected INLINE sensor fitting Type S070 (see separate data sheet- has to be ordered separately)

You have to order two components.

When you click on the orange box "More info." below, you will come to our website for the resp. product where you can download the data sheet.



Ordering chart for electronics Type SE35

Specifications	Operating voltage	Output	Sensor version	Electrical	Item no.
Standard output signal flowmeter, 2 totalizers	115/230 V AC	4 20 mA (2-wire)+ pulse	Hall	2 cable glands	423 922

Ordering chart - accessories for flowmeter Type 8075 (has to be ordered separately)

Specifica- tions	Item no.
Set with 2 cable glands M20 x 1.5 + 2 neoprene flat seals for cable gland or plug + 2 screw-plugs M20 x 1.5 + 2 multiway seals 2 x 6 mm	449 755
Set with 2 reductions M20 x 1.5 /NPT1/2" + 2 neoprene flat seals for cable gland or plug + 2 screw-plugs M20 x 1.5	
Set with 1 stopper for unused cable gland M20 x 1.5 +1 multiway seal 2 x 6 mm for cable gland + 1 black EPDM seal for the sensor + 1 mounting instruction sheet	