

SVM WSDH

Woltman Flow sensor

DATA SHEET

- Horizontal installation
- REED pulse output
- Rotating register
- DN 50-150
- Temperatur range up to +130°C
- Pressure class PN16
- Powder coating for optimum corrosion protection
- High grade wear resistant materials



Flow sensor Woltman WSDH

SVM WSDH is a mechanical Woltman type flow sensor designed for volume measurement of medium to low flow rates with variable flow profiles. The extensive temperature range makes it suitable for heating applications as well as for cooling applications.

The flow sensor is equipped with a dry dial roller counter showing the accumulated volume, and is delivered with a REED pulser.

Due to its construction the flow sensor is suitable for horizontal installations only.

The flow range is very extensive, with a $q_i:q_n$ ratio of 1:100 or more, the pressure loss is very low, and SVM WSDH meet the requirements for accuracy class 3.

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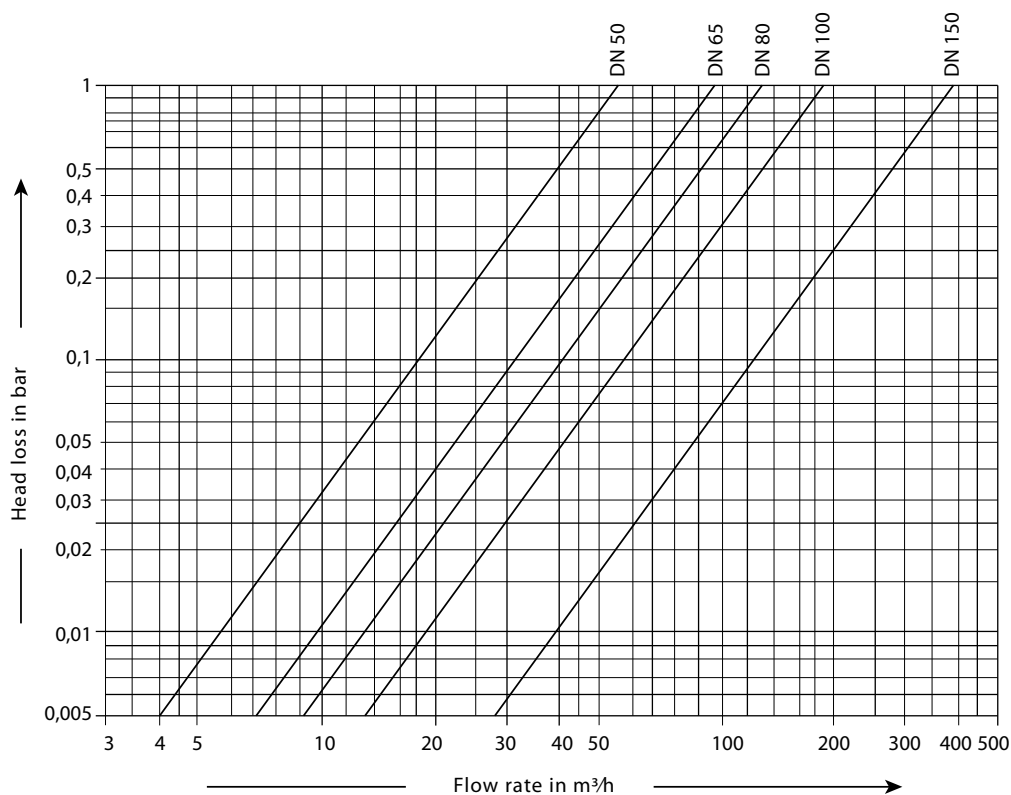
Application

- Volume measurement for district heating and cooling applications
- Measurement of low to medium flow rates with variable flow profile

Features

- Maximum temperature +130°C
- Overload capability up to +150°C
- Sealed register (IP68)
- Register may be rotated through 355°C
- Powder coating for maximum corrosion protection
- Not affected by external magnetic fields
- REED pulser
- Six digit roller counter

Pressure loss



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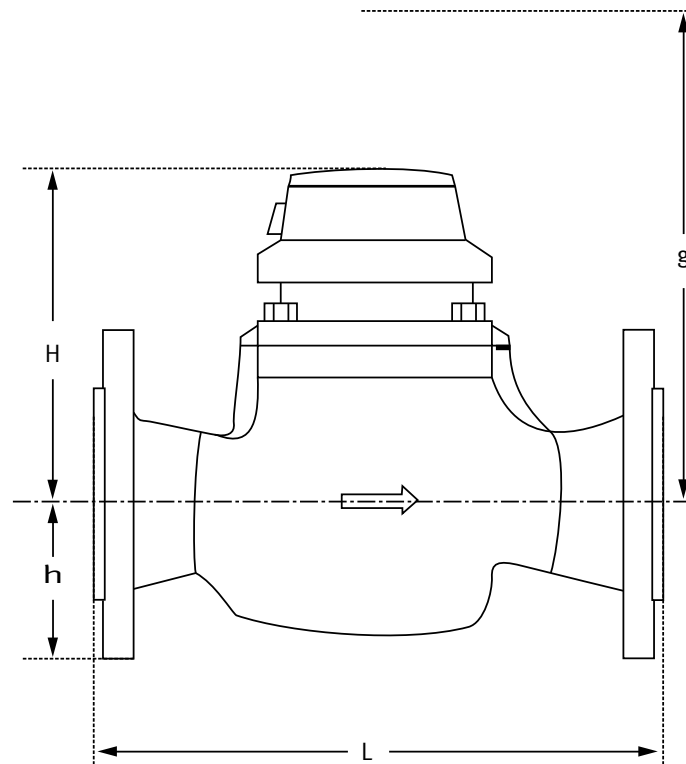
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Installation

Pipeline	Meter head
Horizontal —	Upwards ↑

A straight inlet pipe of $3 \times DN$ is required. Avoid abrupt restrictions directly downstream of the flow sensor.

Dimensions



Commissioning

NOTE! When commissioning the flow sensor, the measuring section must be filled slowly!

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Technical data - WSDH

Woltman flow meter WSDH							
Nominal diameter	DN	mm	50	65	80	100	150
Maximum operating pressure	PN	bar	16	16	16	16	16
Maximum operating temperature	Tmax	°C	130	130	130	130	130
Nominal flow rate	qn	m³/h	15	25	40	60	150
Maximum peak flow	qmax	m³/h	30	60	85	125	300
Transitional flow (±3%)	qt	m³/h	1,5	2,5	2,5	4	12
Minimum flow (±5%)	qmin	l/h	250	300	300	500	800
Starting flow (approx.)	qstart	l/h	60	70	100	150	500
Dimensions							
Length	L	mm	270	300	300	360	500
Height, center to top	H	mm	151	161	161	191	301
Height, center to bottom	h	mm	80	100	100	110	180
Height, with open lid	g	mm	281	301	301	341	581
Weight		kg	13,5	17,5	19,5	32,5	91,5

Ordering key - WSDH Woltman Flow sensor

ABCD-EFG-HIJK	ABCD-	EFG-	H	I	J	K
Hot water max. 130°C	WSDH -					
DN 50		050 -				
DN 65		065 -				
DN 80		080 -				
DN 100		100 -				
DN 150		150 -				
Standard			0			
Special design			S			
PN 16				1		
25 litres/pulse (WSDH DN50-100)					2	
250 litres/pulse (WSDH DN150)					3	
100 litres/pulse (all WSDK, WSDH DN50-100)					7	
PTB approval						2