

# SVM VM-K

## Multi-jet flow sensor

### DATA SHEET

- Dry-dial meter with magnetic coupling
- REED pulse output
- Rotating register
- DN 15-50
- Wear resistant and corrosion proof materials
- Materials suitable for potable water
- Maximum operating temperature +30°C
- Versions for horizontal or vertical installation
- MID approval



### SVM VM-K Multi-jet flow sensor for cold water

SVM VM-K is a mechanical flow sensor for cold water designed for use together with an energy meter in cooling applications, and for volume measurement of cold tap water.

SVM VM-K is made of materials suitable for potable water.

The meter is of the type multi-jet flow sensor with a dry dial roller counter showing accumulated volume. A star wheel on the roller counter act as a flow indicator.

SVM VM-K has a very good flow range, with a  $q_i : q_p$  ratio of 1:100 (1:50 for  $q_p 1.5 \text{ m}^3 / \text{h}$ ), corresponding to R160 (R100 for  $q_p 1.5 \text{ m}^3 / \text{h}$ ) according to the MID.

The flow sensor is available in two different versions, one version for horizontal installations with either flange or thread connection, and one version for vertical installations with thread connection only.



# SVM VM-K Multi-jet flow sensor

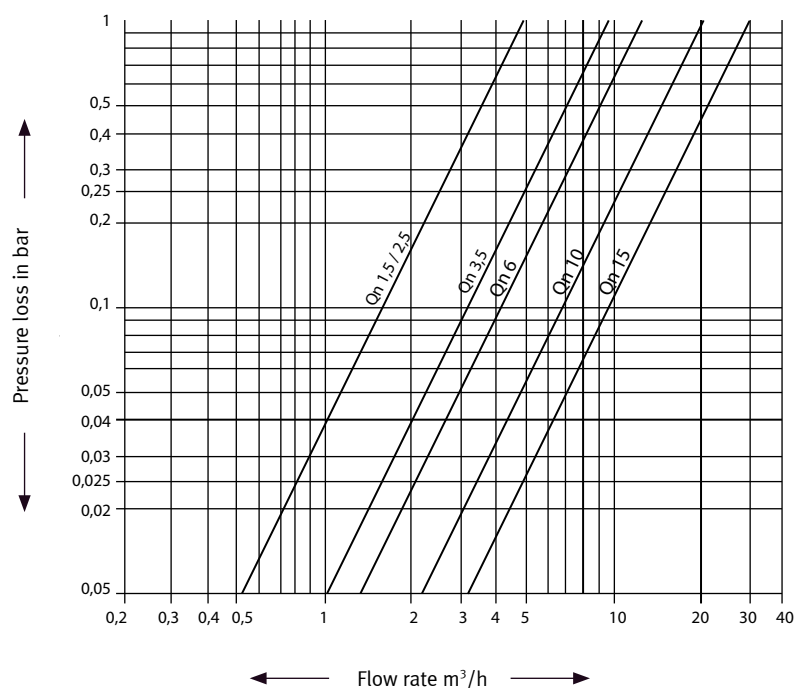
## DATA SHEET



## Application

- Consumption measurement for domestic use
- Volume measurement for cooling applications

## Pressure loss



## Features

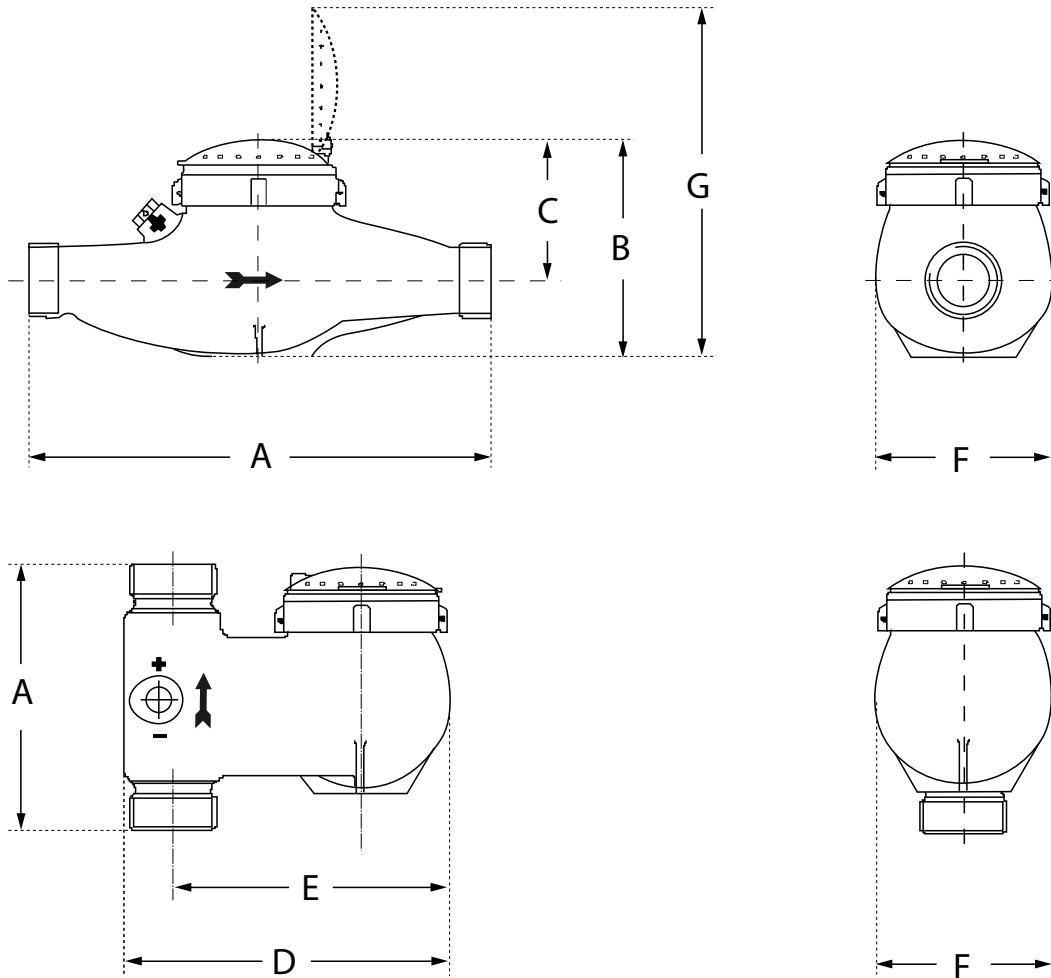
- Multi-jet dry dial with magnetic transmission
- Maximum operating temperature +30°C
- Pressure rating PN16, flanged meters PN25
- Horizontal installation, special models for vertical installation
- REED pulser
- Five digit roller counter
- Turnable counter
- Low starting flow and low pressure loss
- High grade wear resistant and corrosion proof materials suitable for potable water
- Long-term stability and reliability
- Inlet strainer

# SVM VM-K Multi-jet flow sensor

## DATA SHEET



## Dimensions



## Installation

Horizontal pipeline	—	Vertical pipeline	
Meter head upwards ↑		Meter head upwards ↑	

# SVM VM-K Multi-jet flow sensor

## DATA SHEET



### Technical data

Multi-jet flow sensor VM, <b>threaded</b> version, <b>horizontal</b> installation							
Nominal diameter	DN	mm	20	25	32	40	50
Connection thread on meter	G...B	inch	1	1¼	1½	2	2½
Connection thread on coupling	R...	inch	¾	1	1¼	1½	2
Maximum operating pressure	PN	bar	16	16	16	16	16
Maximum operating temperature	Tmax	°C	30	30	30	30	30
Nominal flow rate	qp	m³/h	2,5	3,5	6	10	15
Maximum flow rate	qs	m³/h	5	7	12	20	30
Minimum flow ±3%	qt	l/h	37,5	52,5	90	150	225
Minimum flow ±5%	qi	l/h	25	35	60	100	150
<b>Dimensions</b>							
Length	A	mm	190	260	260	300	300
Height	B	mm	116	135	135	149	163
Height from pipe centre	C	mm	76	89	89	103	106
Width	F	mm	88	103	103	136	150
Height with lid open	G	mm	193	212	212	226	240
Weight		kg	2	3,2	3,3	6,1	7,8

Multi-jet flow sensor VM, <b>flanged</b> version, <b>horizontal</b> installation							
Nominal diameter	DN	mm	20	25	32	40	50
Maximum operating pressure	PN	bar	25	25	25	25	25
Maximum operating temperature	Tmax	°C	30	30	30	30	30
Nominal flow rate	qp	m³/h	2,5	3,5	6	10	15
Maximum flow rate	qs	m³/h	5	7	12	20	30
Minimum flow ±3%	qt	l/h	37,5	52,5	90	150	225
Minimum flow ±5%	qi	l/h	25	35	60	100	150
<b>Dimensions</b>							
Length	A	mm	190	260	260	300	300
<b>Height</b>	B	mm	116	135	135	149	163
Height from pipe centre	C	mm	76	89	89	103	106
Width	F	mm	88	103	103	136	150
Height with lid open	G	mm	193	212	212	226	240
Flange external Ø		mm	105	115	140	150	165
Hole circle Ø		mm	75	85	100	110	125
No of screws		ant	4	4	4	4	4
Weight		kg	3,9	4,9	5,3	10,1	12,3

# SVM VM-K Multi-jet flow sensor

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### Technical data

Multi-jet flow sensor VM, threaded version, vertical installation						
Nominal diameter	DN	mm	20	25	32	40
Connection thread on meter	G...B	inch	1	1¼	1½	2
Connection thread on coupling	R...	inch	¾	1	1¼	1½
Maximum operating pressure	PN	bar	16	16	16	16
Maximum operating temperature	Tmax	°C	30	30	30	30
Nominal flow rate	qp	m³/h	2,5	3,5	6	10
Maximum flow rate	qs	m³/h	5	7	12	20
Minimum flow ±3%	qt	l/h	37,5	52,5	90	150
Minimum flow ±5%	qi	l/h	25	35	60	100
<b>Dimensions</b>						
Length	A	mm	105	150	150	200
Meter depth	D	mm	146	171	174	225
Meter depth from pipe centre	E	mm	125	145	146	190
Width	F	mm	87	103	103	139
Weight		kg	2,4	3,7	4,2	5,7

### Ordering key, multi-jet flow sensors for cold water

VM ABCDE-FGHIJ	AB	C	DE-FG	H	I	J
Cold water max. 30°C, horizontal pipe	10					
Cold water max. 30°C, vertical riser pipe	16					
Cold water max. 30°C, vertical down pipe	17					
Thread connection		G				
Flange connection		F				
DN20, G1B, Qp 2,5m³/h			20-25			
DN25, G1¼B, Qp 3,5m³/h			25-35			
DN32, G1½B, Qp 6,0m³/h			32-60			
DN40, G2B, Qp 10m³/h			40-10			
DN50, G2¾B, Qp 15m³/h			50-15			
NO pulse output					0	
Pulse output 10 [l/p]					6	
Pulse output 100 [l/p]					7	
MID approval						M
Standard design						0
Special design						S