



Flow sensor 443/444

Data sheet

Application

The flow sensor 443/444 may be used together with a calculator as a heat meter. The flow sensor is well adapted for heat metering in small houses and dwellings.

Features

- Built-in pulse unit.
- 443 approved for temperatures up to +90° C.
- 444 equipped with hard metal bearings approved for temperatures up to +120°C.
- Electronic transmission between the wing wheel and the dry counter.

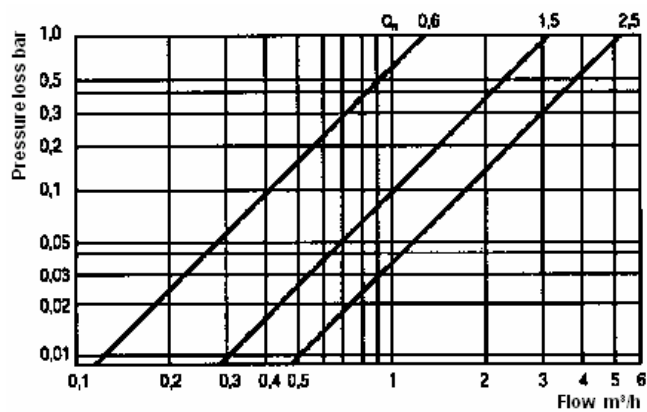
Function

The 443/444 is a single jet wing wheel flow sensor. The wing wheel is the only moving part in the water. The flow sensor has a built-in pulser and may be ordered with a few different pulse values.



Flow sensor 443/444

Pressure loss diagram



Installation

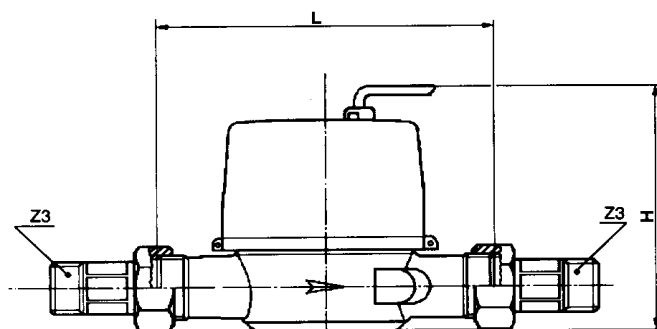
The flow sensor shall be installed horizontally, and preferably in the return pipe. It is recommended that the pipes are thoroughly rinsed before the flow sensor is mounted. Make sure that the sensor is mounted correctly in the flow direction. A straight pipe of 10 x DN before and 5 x DN after the flow sensor is recommended.

Technical data

Flow sensor 443/444					
443G / 444G	15-06	20-06	15-15	20-15	20-25
Thread	G $\frac{3}{4}$ B	G1B	G $\frac{3}{4}$ B	G1B	G1B
Flow m³/h					
q _{max} (q _s)	1.2	1.2	3	3	5
q _n (q _p)	0.6	0.6	1.5	1.5	2.5
q _t	0.048	0.048	0.12	0.12	0.2
q _{min} (q _i)	0.012	0.012	0.03	0.03	0.05
q at 10 kPa pressure loss	0.4	0.4	1	1	1.8
Dimensions:					
Length (L) in mm:	130	130	110	130	130
Height (H) in mm:	100	100	100	100	100
Weight in kg:	0.8	1	0.8	1	1
Approvals:	PTB/BEV	PTB/BEV	PTB/BEV	PTB/BEV	PTB/BEV
Pulse output:	1 litre/pulse; 2,5 litres/pulse; 10 litres/pulse				
Max. temperature:	120° C.				
Pressure class:	PN 16.				
Meteorological class:	A / B•H				
Accuracy:	q _i -q _i : ±5%, q _t -q _s : ±3%				
Pipe material:	Bronze.				
Pulse output:	Max 24 V, 0,2 A.				
Protective resistor:	100 Ohm.				

Dimensions

All dimensions in mm



Accessories

- Extension part Z3-0-30 G1B×20 mm×G1B
- Extension part Z3-0-32 G1B×60 mm×G1B
- Extension part Z3-0-34 G $\frac{3}{4}$ B×55 mm×G $\frac{3}{4}$ B
- Gasket, PTFE Z3-0-55 for DN 15 (G $\frac{3}{4}$ B)
- Gasket, PTFE Z3-0-56 for DN 20 (G1B)

Ordering key Flow sensor 443/444

443 / 444 G	<input type="checkbox"/>	<input type="checkbox"/>	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nominal size / length									
G $\frac{3}{4}$ B DN 15 110 mm	1	5							
G1B DN 20 130 mm	2	0							
Nominal flow									
Q _n 0,6 m ³ /h				0	6				
Q _n 1,5 m ³ /h				1	5				
Q _n 2,5 m ³ /h				2	5				
Pulse output									
1 litre/pulse								5	
2,5 litres/pulse								1	
10 litres/pulse								6	
Approvals									
BEV Q _n 0,6 and 1,5 m ³ /h									9
PTB with anti-magnetic screen									2
Standard									0
Compact with F2, 1 meter PVC-cable									F
Compact with 690/731, 0,2 meter silicone cable									K
Special									S
Standard									-
With temperature sensor connection									A



Metrima AB

Norra Stationsgatan 93
SE-113 64 Stockholm
Phone: +46 8 23 60 30 Fax: +46 8 23 60 31

www.metrima.se
info@metrima.se

5-05-01E
060308/EW