

Model FSM - Fire Service Water Meter

A compound water meter with an extremely wide flow range, including a built-in strainer, a stone trap and a diverter valve.

At low flows only the secondary, small by-pass water meter functions. When the flow rate increases, the diverter valve turns from fully-closed to fully-open position and the main meter starts functioning as well.

- **Applications**

To be installed in water supply lines where the use of such meters are dictated by authorities or recommended by designers.

The FSM enables accurate measuring of normal consumption within a wide range of flowrates, including excessively high flow rates in case of fire with low loss of head.

- **Available Sizes**

4" x 1", 6" x 1 1/2", 8" x 2"

- **Standards**

MID 2004/22/EC,
OIML R49 EN 14154,
AWWA C703, NSF, FM

Features:

- Field serviceable strainer, stone trap and diverter valve
- Field replaceable measuring units
- Hermetically sealed magnetic registers
- Optional - all versions of ARAD electrical outputs

Technical Specifications

Maximum Working Pressure	12 bar
Maximum Liquid Temperature	50°C
Bodies	Strainer - Polyester coated steel. Meter & change over valve - ductile iron.
Flanges	AWWA

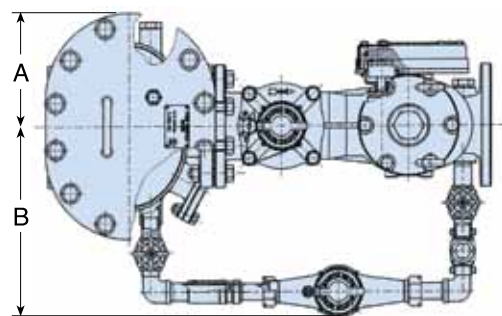
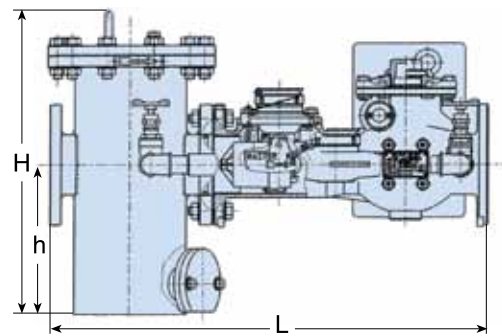


FSM type dial

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Dimensions

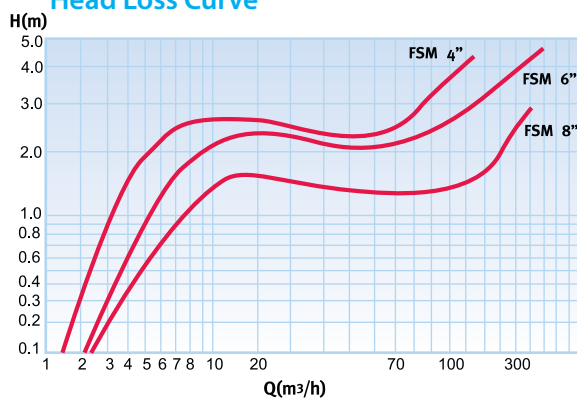
Model		FSM		
Nominal size	(mm)	100	150	200
	(inch)	4	6	8
L - Length (mm)		837	1142	1346
H - Height (mm)		576	726	788
h - Height (mm)		292	355	400
B - Width (mm)		340	460	562
A - Width (mm)		211	248	335
Weight (kg)		123	297	384



Performance data:

Model FSM				Q _{max} Maximum flowrate (m ³ /h)	Q _n Nominal Flowrate (m ³ /h)	Q _t Transitional Flowrate (m ³ /h)	Q _{min} Minimum Flowrate (m ³ /h)	Starting Flow (m ³ /h)	Maximum register capacity (m ³)	Accuracy between Q _{max} & Q _t	Accuracy between Q _t & Q _{min}
Nominal size											
(mm)	(inch)	(mm)	(inch)								
100	4	25	1	143	120	0.17	0.08	3.6	10 ⁷	±2%	±5%
150	6	40	1 ½	318	290	0.34	0.16	3.9	10 ⁷		
200	8	50	2	545	480	0.45	0.30	8.2	10 ⁸		

Head Loss Curve



Installation Requirements

- The water meter should be installed in horizontal position.
- The meter shall be full of water while operating.
- Prior to installation of a meter, the pipeline shall be thoroughly flushed.
- Straight pipe section of the same diameter D as the meter, having length of 10D and 5D shall be installed upstream and downstream of the meter respectively.