



HYDROMETER

Model BM/BMA

The Hydrometer is a combination of a water meter and a hydraulic valve in a single unit.

Features:

- Integrated design minimizes installation space.
- Specifically designed for use in automated remote control environments.
- Wide variety of flow and pressure regulation options.
- Double-chambered hydraulic valve designed for high-pressure operation.
- Rugged, heavy-duty construction.
- Low loss of head.
- Wide range of sizes - suitable for virtually any application

Technical Specifications

Maximum Working Pressure	16 bar
Body	Polyester coated cast iron body Reinforced natural rubber valve diaphragm.
Connection	Flanges: AWWA, ISO, BS, other upon request Threaded: Male BSP 1 1/2"-2", Female BSPT or NPT 2"

Description

- The hydrometer combines a water meter and a hydraulic valve in a single unit.
- The valve is double-chambered and is especially designed for high-pressure operation.
- Pilot valves and solenoid valves enable remote and automatic transmission of hydraulic commands to the hydrometer.
- Hermetically sealed register.
- The impeller is the only moving part in contact with the water.
- The meter contains a rotating leakage indicator as well as a totalizer that displays cumulative volume.
- The meter electronically transmits flow data to the remote control computer.
- The hydrometer is available in globe type and angle type models in a variety of sizes.

Applications

The BM/BMA hydrometers series are designed for remote control irrigation and for industrial applications. The hydrometer is especially suited for automated operation. The hydrometer may be used in a variety of pressure and flow regulation applications such as:

- Pressure sustaining & reducing
- Flow regulation
- Combined pressure and flow regulation
- Dual stage operation

Available Sizes

BM - Globe type: 1 1/2", 2", 3", 4", 6", 8"

BMA- Angle type: 2", 3", 4", 6", 8"

Standard

EEC approval (class A)



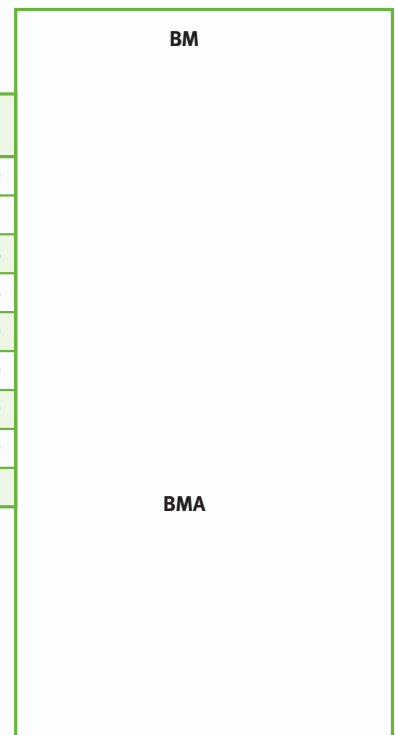


Performance data:

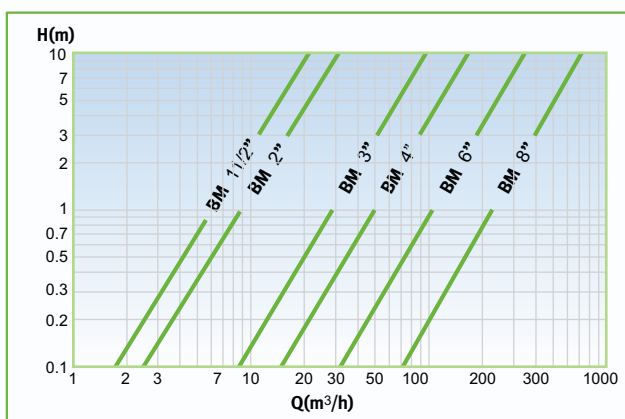
Model BM/BMA		Qmax Maximum flowrate (m ³ /h)	Qn Nominal Flowrate (m ³ /h)	Qt Transitional Flowrate (m ³ /h)	Qmin Minimum Flowrate (m ³ /h)	Minimum register capacity (m ³)	Minimum register capacity (liter)	Accuracy between Qmax & Qt	Accuracy between Qt & Qmin
Nominal Size									
mm	inch								
40	1 1/2	20	10	1	0.4	10 ⁶	1	±2	±5
50	2	30	15	4.5	1.2	10 ⁶	1		
80	3	130	65	12	3.2	10 ⁶	1		
100	4	180	90	18	4.8	10 ⁷	10		
150	6	300	150	45	12	10 ⁷	10		
200	8	540	270	81	22	10 ⁷	10		

Dimensions

Model	BM-Globe type							BMA-Angle type				
Nominal size	(mm)	40	50	80	100	150	200	50	80	100	150	200
	(inch)	1 1/2	2	3	4	6	8	2	3	4	6	8
L - Length (mm)		160	190	285	325	500	600	158	243	277	440	525
H - Height (mm)		262	330	420	435	645	765	350	430	450	645	675
h - (mm)		-	-	-	-	-	-	122	140	176	300	280
A - (mm)		-	-	-	-	-	-	96	140	162	250	300
B - Width (mm)		120	120	205	230	380	450	120	210	230	380	450
Weight (kg)		2	3.8	24.5	30.5	120	150	3.3	23.5	29.5	111	140
Weight with couplings (kg)		3	5.2					4.7				



Head Loss Curve



Electrical output

Available Outputs (m ³ /pulse)	1 1/2"	2"	3"	4"	6"	8"
0.01	•	•	•			
0.1	•	•	•	•	•	•
1	•	•	•	•	•	•
10				•	•	•

Installation Requirements

- The hydrometer can be installed in any position (horizontal, vertical or inclined).
- The meter must be always full of water while operating.
- Prior to the installation of a new meter, the pipeline must be flushed out.

