

HYDROMETER

Model BM/BMA

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.

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

Available Sizes

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

Standards

EEC approval (class A)

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"



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

HYDROMETER

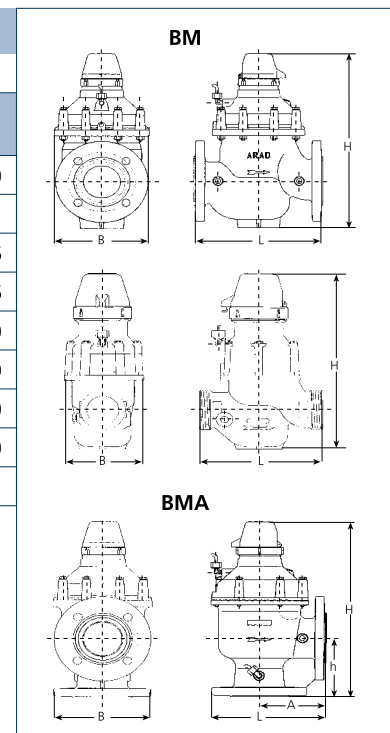
Model BM/BMA

Performance data

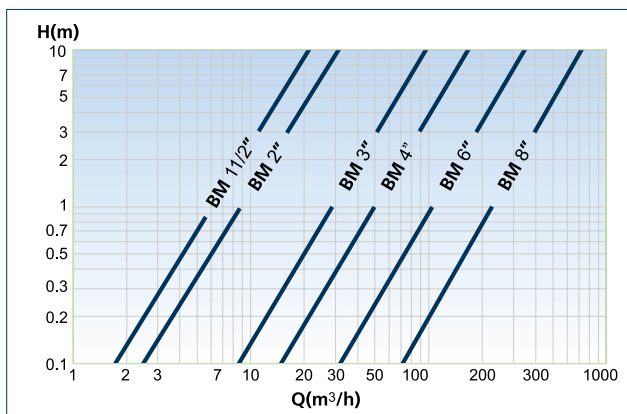
Model BM/BMA		Qmax Maximum flowrate (m ³ /h)	Qn Nominal Flowrate (m ³ /h)	Qt Transition al Flowrate (m ³ /h)	Qmin Minimum Flowrate (m ³ /h)	Minimum register capacity (m ³)	Minimum register capacity (liter)	Accuracy between Qmax & Qt	Accuracy between Qt & Qmin
Nominal Size									
mm	inch								
40	1 1/2	20	10	1	0.4		1	±2	±5
50	2	30	15	4.5	1.2		1		
80	3	130	65	12	3.2		1		
100	4	180	90	18	4.8		10		
150	6	300	150	45	12		10		
200	8	540	270	81	22		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	3	277	440	525
H - Height (mm)		262	330	420	435	645	765	350	243	450	645	675
h - (mm)		-	-	-	-	-	-	122	430	176	300	280
A - (mm)		-	-	-	-	-	-	96	140	162	250	300
B - Width (mm)		120	120	205	230	380	450	120	140	230	380	450
Weight (kg)		2	3.8	24.5	30.5	120	150	3.3	210	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				•	•	•