Hydrometer BM



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



Description

- 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 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: 11/2", 2", 3", 4", 6", 8"

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.
- 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 11/2"-2"
	Female BSPT or NPT 2"

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Performance data

Model BM		Qmax Maximum flowrate	Qn Nominal Flowrate	Qt Transitional Elowrate	Qmin Minimum Elowrate	Minimum register capacity	Minimum register capacity	Accuracy between Omax & Ot	Accuracy between Ot & Omin
(mm)	nal size (inch)	(m³/h)	(m ³ /h)	(m ³ /h)	(m ³ /h)	(m³/h)	(liter)		
40	11/2	30	20	1.3	0.4	106	1		±5%
50	2	50	30	3	0.45	106	1		
80	3	130	65	8	1.2	106	1	±2%	
100	4	200	100	12	1.8	107	10	1 ±2%	
150	6	300	150	30	4.5	107	10		
200	8	540	270	50	7.5	107	10		

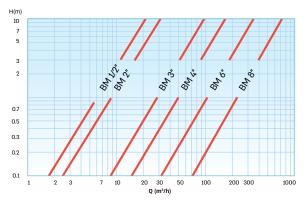
Performance as per Class A Requirements

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	Qmax Maximum flowrate (m ³ /h)	Qn Nominal Flowrate (m³/h)	Qt Transitional Flowrate (m³/h)	Qmin Minimum Flowrate (m³/h)			
1 1/2 "	20	10	1	0.4			
2″	30	15	4.5	1.2			
3″	80	40	12	3.2			
4"	120	60	18	4.8			
6"	300	150	45	12			
8"	500	250	75	20			

Dimensions

Model	BM-Globe type						
Nominal size	(mm)	40	50	80	100	150	200
Nominal size	(inch)	1.5	2	3	4	6	8
L - Length (mm)		160	190	285	324	500	600
H - Height (mm)		266	331	433	456	581	782
h - (mm)		-	-	-	-	-	-
A - (mm)		-	-	-	-	-	-
W - Width (mm)		124	124	205	230	380	450
Weight (kg)		4.5	6.5	24.5	30.5	120	150
Weight with couplings (kg)		5.5	8	-	-	-	-

Head Loss Curve



Electrical output

Available Outputs (m3/pulse)	11/2"	2″	3″	4″	6″	8″
0.01	•	•	•			
0.1	•	•	•	•	•	•
1	•	•	•	•	•	•
10				•	•	•

Installation Requirements

- The meter should be installed in horizontal or vertical position
- The meter must be always full of water while operating

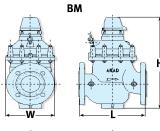
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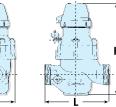
• Prior to the installation of a new meter, the pipeline must be flushed out



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For the most updated version, please view our website: www.arad.co.il Specifications are subject to change without notice.