

BAR water meter

BAR water meters

The Bermad BAR water meters based on the Woltman principle are, due to their robust design, particularly suited to handle high flow rates. They are used for applications in industry, waterworks, and irrigation systems. The BAR water meter is a wear-resistant and easy-to-maintain product.

Product features:

- Magnetically coupled drive fully separated from the flowing water
- Dry register, airtight and turning 360°
- Low pressure loss
- Interchangeable register

The BAR water meter is available with 2 different registers:

Electronic register BAR-E:

- Digital display
- Flow direction display
- Flow display
- Measures flow in two directions:
 - forwards min backwards
- Battery life at least 10 year
- 2 pulse outputs (3 wires)
- Fast pulse
- Leak detection

Options:

- WiFi
- Measures flow only forwards
- Measures flow forwards and backwards separately

Mechanical register BAR-M:

- Analogous counters
- Flow display
- Leak indicator
- 1 pulse (reed switch)

Options:

- Without pulse (reed switch)





BAR water meter

Technical data

Specifications:

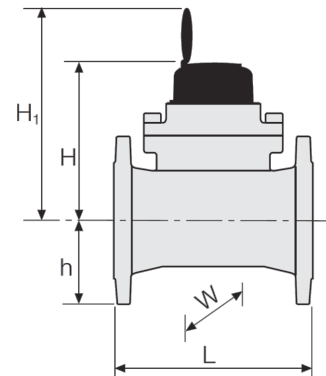
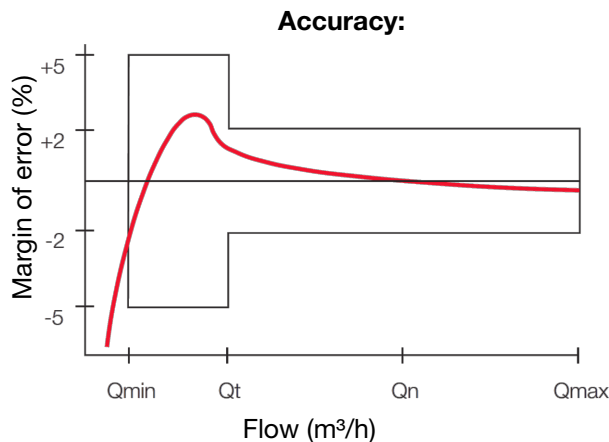
- Sizes: 1½" - 20"; DN40 - DN500
- Working pressure: 0 - 16 bar
- Max. Temperature: 50 °C
- Connection: ISO flange
- Pressure class: ISO PN16
- Approvals: IP 68, ISO4064 class B-H/EEC, MID 2004/22/EEC (EEC 2" to 12")

Materials:

- Body and cover: cast iron with polyester coating
- Register: plastic and glas
- Internal components: plastic and stainless steel

Models		1½"	2"	2½"	3"	4"	5"	6"	8"	10"	12"	16"	20"
DN	mm	40	50	65	80	100	125	150	200	250	300	400	500
Nom. capacity Q _{nom} Q _n	m³/h	25	40	63	63	100	160	250	400	630	1000	1600	2500
Transitional capacity Q _t	m³/h	0,8	0,8	1,3	1,3	2	3,2	5	8	12,6	20	51	80
Min. capacity Q _{min}	m³/h	0,5	0,5	0,8	0,8	1,3	2	3,1	5	8	12,5	32	50
Max. capacity peak Q _{max}	m³/h	31	50	79	125	200	200	313	500	788	1250	2000	3125
Flange ISO PN16 bolt circle dia.	mm	110	125	145	160	180	210	240	295	355	410	525	650
Length L	mm	260	200	200	225	250	250	300	350	450	500	500	500
Height H	mm	268	275	285	295	304	318	366	393	512	534	669	765
Height H1	mm	338	345	355	365	374	388	436	463	582	604	739	835
Height h	mm	68	75	85	95	104	118	135	162	194	216	304	355
Width W	mm	160	170	190	200	230	250	285	340	395	445	600	700
Weight	kg	13	12	14	16	19	20	39	52	105	120	187	256
Pulse 1/10 *		E	E	E	E	E	E						
Pulse 1/100 *		M/E	M/E	M/E	M/E	M/E	M/E	E	E	E	E	E	E
Pulse 1/1.000 (1/1m³) *		M/E	M/E	M/E	M/E	M/E	M/E	M/E	M/E	E	E	E	E
Pulse 1/10.000 (1/10m³) *					E	E	E	M/E	M/E	M/E	M/E	M/E	M/E

* E = Electronic register
M = Magnetic register



Subject to modifications
 No liability accepted for errors or misprints

Electronic register:

- Cable: 3 wires, 1.5m long
- Switch: double
- Switching voltage: 35VDC max.

Reed switch (magnetic register):

- Cable: 2 wires, 1.5m long
- Switch: single
- Switching voltage: 24V AC/DC max.
- Switching current: 0,01A max.