

BAYLAN

WATER METERS

Ultrasonic Water Meters



GENERAL

- MID Certified • No measurement of air • Reverse flow detection
- Ultrasonic working principle assures very high sensitivity even at low flow
- Meters are protected against tampering by Seal Stickers with BAYLAN brandname hologram, approved by Metrology Institute
- Calibration is done inside the electronic circuit digitally by software parameters, which is not possible to modify externally
- The compact design uses ultrasonic measurement technology
- Due to the lack of moving parts, high measurement accuracy
- Suitable for potable water • Advanced service network
- Very good sensitivity in initial starting • Suitable for cold water up to 50°C
- Radio Frequency automatic remote reading • Modbus interfaces (Optional)
- Wide dynamic measuring range and low pressure loss
- Solid stainless steel reflector • Can be mounted all positions desired
- IP 68 protection class • M-Bus & wM-Bus interfaces
- Lithium battery, 10 years lifetime • 3 years of warranty
- Service and spare parts available for 10 years



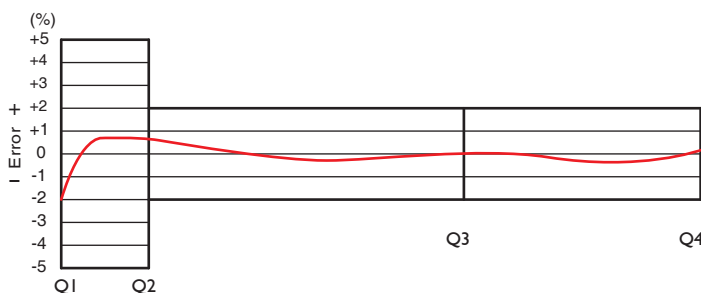
MAIN TECHNICAL DATA

METER SIZE DIA (mm)	TYPE	Q ₃ / Q ₁	Q4	Q3	Q2	Q1	PRESSURE LOSS	SMALLEST READING RESOLUTION	MAX. REGISTRATION CAPACITY
			MAX FLOW	NOMINAL FLOW	TRANSITIONAL FLOW	MIN. FLOW			
			m ³ /h				bar	m ³	
15	U-1	≤500	3,125	2,5	0,008	0,005	0,25	0,00001	999999
20	U-2	≤500	5	4	0,0128	0,008	0,16	0,00001	999999
25	U-3	≤500	7,875	6,3	0,020	0,0126	0,16	0,00001	999999
32	U-4	≤500	12,5	10	0,032	0,020	0,16	0,00001	999999
40	U-5	≤500	20	16	0,0512	0,032	0,16	0,00001	999999

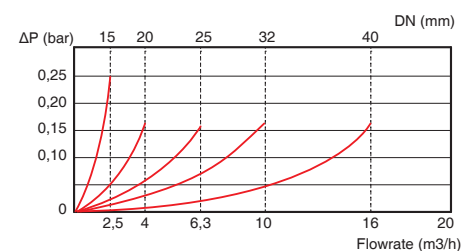
DIMENSIONS & WEIGHTS

METER SIZE DIA (mm)	TYPE	D CONNECTING DIAMETER	H METER HEIGHT	h AXIS HEIGHT	L LENGTH	B WIDTH	LB LENGTH WITH CONNECTION	LCD SCREEN LENGTH	LCD SCREEN ANGLE	UNIT WEIGHT
(mm)										kg
15	U-1	G 3/4 B	129	19,2	110/130	80	190/210	47x15	30°	0,80
20	U-2	G1 B	129	19,2	130	80	210	47x15	30°	0,80
25	U-3	G1 1/4 B	139	24	160	80	240	47x15	30°	0,85
32	U-4	G1 1/2 B	147	25	180	80	260	47x15	30°	1,30
40	U-5	G2 B	152	32,6	200	80	280	47x15	30°	1,70

PERFORMANCE CURVE



PRESSURE LOSS CURVE



"Due to continuous development of our products, we reserve the right to modify our product design or construction without prior notice."

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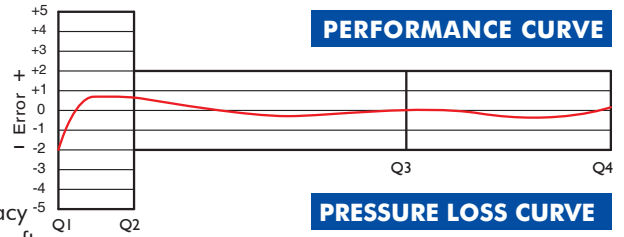
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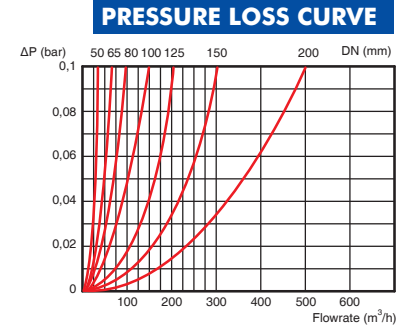


GENERAL

- MID Certified • Very good sensitivity at starting flow • Modbus or M-Bus interfaces (Optional)
- Ultrasonic working principle assures very high sensitivity even at low flow
- Reading through the center of the GPRS system, the collector of conformity (Optional)
- Via the LCD display providing access to meter data for billing and check out • Parametric 2 pulse outputs
- Meters are protected against tampering by Seal Stickers with BAYLAN brandname hologram, approved by Metrology Institute
- Suitable for potable water • Advanced service network
- Suitable for cold water up to 50°C
- No measurement of air • Reverse flow detection
- Wide dynamic measuring range and low pressure loss
- Can be mounted all positions desired
- IP 68 protection class
- Radio Frequency automatic remote reading (Optional)
- Due to the lack of moving parts, high measurement accuracy
- Calibration is done inside the electronic circuit digitally by software parameters, which is not possible to modify externally
- Lithium battery, 10 years lifetime • 3 years of warranty
- Service and spare parts available for 10 years



PERFORMANCE CURVE



PRESSURE LOSS CURVE

CE 1783
TSE
ISO 4064-1
Muyazene TS EN ISO/IEC 17020 AB-0088-M
Test TS EN ISO/IEC 17025 AB-0177-T
YÖNETİM SİSTEMİ BELGELERİMİZ
Management System ISO 9001:2015
Management System ISO 14001:2015
Management System ISO 27001:2015
Management System ISO 45001:2018

MAIN TECHNICAL DATA

At low flows : $\pm 5\%$ (error) between minimum flow rate (Q_1) and transitional flow rate (Q_2)
 At high flows : $\pm 2\%$ (error) between transitional flow rate (Q_2) and overload flow rate (Q_4)
 Max. Working Temperature : 50°C
 Max. Working Pressure : 16 bar

METER SIZE DIA (mm)	TYPE	Q_3 / Q_1	Q4 MAX FLOW	Q3 NOMINAL FLOW	Q2 TRANSITIONAL FLOW	Q1 MIN. FLOW	SMALLEST READING RESOLUTION	MAX. REGISTRATION CAPACITY
			m^3/h					
50	UW 6	≤ 400	31,25	25	0,100	0,063	0,00001	99999999
65	UW 0	≤ 400	50	40	0,160	0,100	0,00001	99999999
80	UW 1	≤ 400	78,75	63	0,252	0,158	0,00001	99999999
100	UW 2	≤ 400	125	100	0,400	0,250	0,00001	99999999
125	UW 3	≤ 400	200	160	0,640	0,400	0,00001	99999999
150	UW 4	≤ 400	312,5	250	1,000	0,625	0,00001	99999999
200	UW 5	≤ 400	500	400	1,600	1,000	0,00001	99999999

DIMENSIONS & WEIGHTS

METER SIZE DIA (mm)	L LENGTH	B WIDTH	H HEIGHT	CONNECTING FLANGE			PACKAGE WEIGHT (Without Flange) (kg)	PACKAGE WEIGHT (With Flange) (kg)
				D2 (mm) FLANGE DIA	D1 (mm) FLANGE HOLE CENTER	CONNECTION BOLT (PCS-DIA)		
50	200	165	198	165	125	4 - M16	9	13,50
65	200	185	215	185	145	4 - M16	10,5	15,7
80	225	200	226	200	160	8 - M16	12,6	19,20
100	250	220	240	220	180	8 - M16	16,00	23,25
125	250	250	260	250	210	8 - M16	20,47	31,22
150	300	285	300	285	240	8 - M20	27,17	39,67
200	350	340	337	340	295	8 - M20	41,9	60,35

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