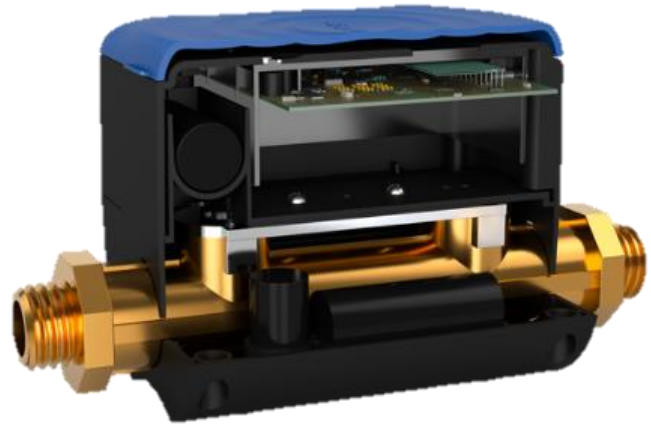
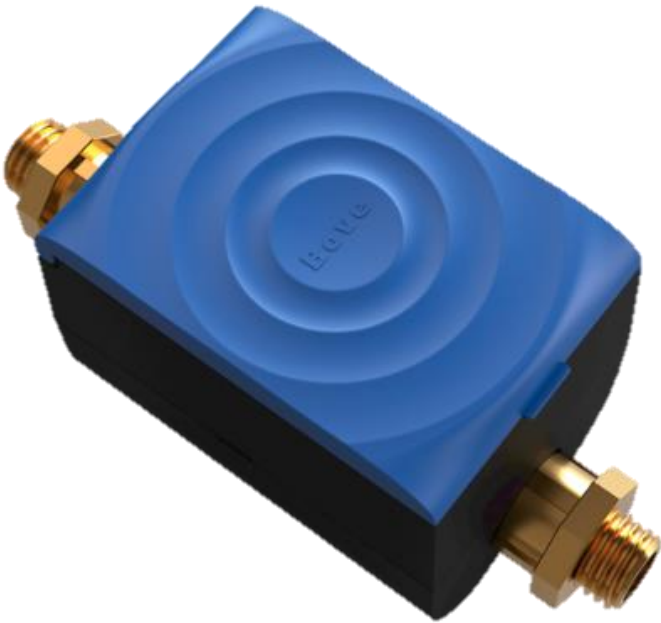


BECO X

Ultrasonic Meter for Potable Water – Residential Use R400



Main features

BECO X has no moving parts, is rated IP68, and its body is made of durable brass. This robust design makes BECO X maintenance-free and highly accurate throughout the 10- or 15-year battery lifespan, depending on customer requirements.

The battery can be replaced in case of failure. This procedure can be performed by professional engineers without any intervention in the electronic components.

Application

Reliable metering for billing of all types of water up to 30 °C.

High-impact polycarbonate dome

Measurement of medium and high flow rates

Measurement of minimum flow rates during low-demand periods

Service life: Minimum of 10 years based on material durability; compliant with technical requirements

Accurate and reliable reading in horizontal installation.

R250, R400 (up to DN 50)

BECO X supports multiple wired and wireless communication interfaces suitable for any installation environment, such as M-Bus, RS485 (Modbus), pulse, and LoRaWAN.

Technical information

Performance under extreme conditions: Installed in protective boxes for water meters.

Accessory description: Includes a set of couplings for installation.

Packaging recommendations: Packaged in boxes of 10 meters for ease of transport and storage

Lubricant recommendations: N/A

Description of tests to evaluate hydraulic performance: According to NTC ISO 4064-1 and 4064-2:

- Static pressure: The hydraulic pressure supported by the meter is increased for a specified period without causing leaks or deformation.
- Indication errors: A volume of water is passed through the meter and collected in volumetric containers. The indication errors are calculated by comparing the readings given by the meter under reference conditions with those from the calibrated reference device (volumetric container).

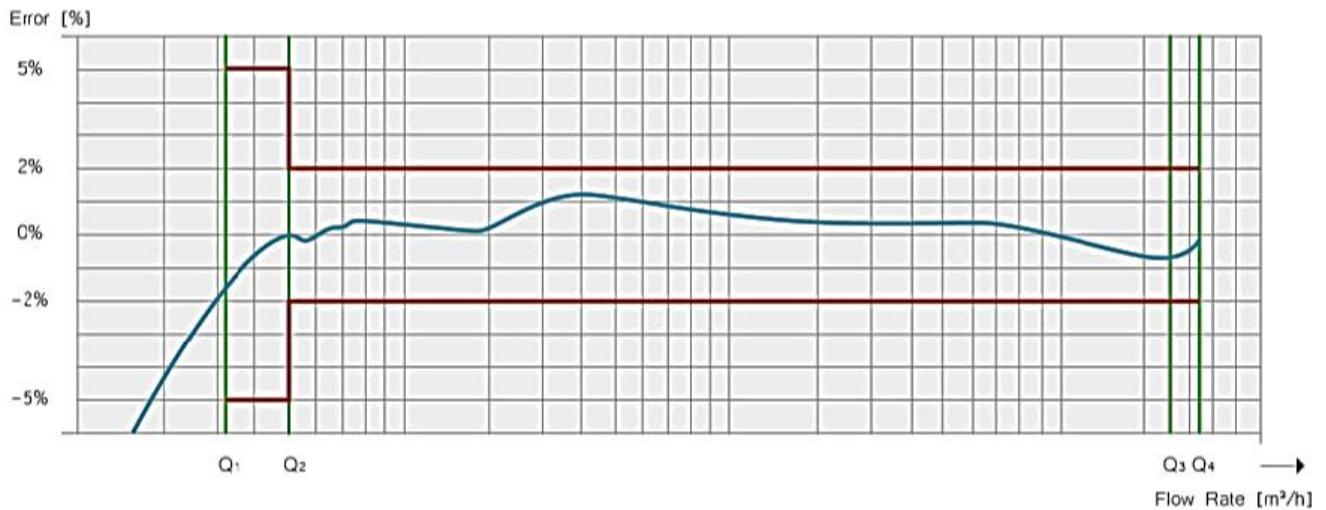
Preventive and corrective maintenance instructions: No maintenance required.

Technical regulation or standard: MID

Technical characteristics

Model	BECO X - 15	BECO X - 20	BECO X - 25	BECO X - 32	BECO X - 40
Pipe Diameter	DN15	DN20	DN25	DN32	DN40
Minimum flow rate q_i (m ³ /h)	0.00625	0.01	0.0252	0.04	0.064
Permanent flow rate q_p (m ³ /h)	2.5	4.0	6.3	10	16
Maximum flow rate q_s (m ³ /h)	3.125	5.0	7.875	12.5	20
Connection	G $\frac{3}{4}$ '	G1'	G1 $\frac{1}{4}$ '	G1 $\frac{1}{2}$ '	G2'
Length (mm)	165	195	225	180	200
Width (mm)	81	81	81	81	81
Height (mm)	100	100	118	128	135
Temperature	Medium range: 0,1 °C... 30/50 °C (T30 / T50) Ambient Temperature: 5 ~ 55 °C Storage Temperature: -20 ~ 60 °C				
Materials	Brass 59-1				
Metrological class	2 Class R125, R160 (upto T70) R250, R400 (upto T50)				
Maximum operating pressure	1.6 MPa				
Pressure loss	ΔP < 63kPa				
Pressure stage	PN16				
Protection class	IP65/IP68				
Battery	3.6V DC Lithium Battery, Optional 6/10/16-Year Lifespan				
Data storage	24 Months of Historical Data				
Environmental requirement	Environmental class: E1, M1, B				
Interface and communication	<ul style="list-style-type: none"> • M-Bus • Pulse output (optional) • RS-485 (optional) • LPWAN (LoRa, NB-IOT) (optional) • Sigfox 				
Installation	H, V, H/V				
Display and indication	<ul style="list-style-type: none"> • Unit: m³ / Gallon (optional) • LCD: 8-digit 				
Standards compliance	• EN14154 • ISO4064 • OIML R49 MID				

Typical Curve



DOCUMENT'S VERIFICATION AND APPROVAL

