

The high-precision Valve Control/ Prepaid Ultrasonic Water Meter
developed for indoor/ outdoor application
0.00625 – 5m³/h

B97 VPW



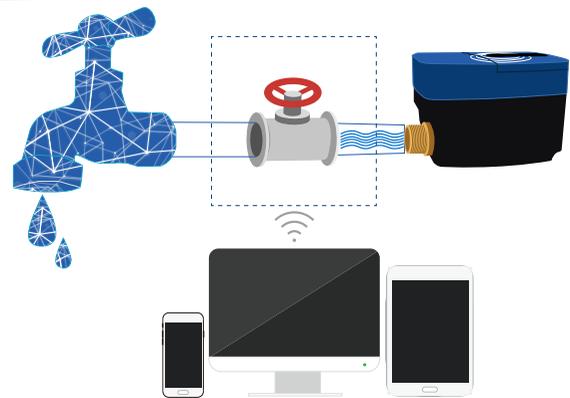
Introduction

After unremitting efforts, exploration and research, the new version of valve control/ prepaid meter, B97 VPW, has been released. It combines the characteristics of industrial products and artworks, and is practical, attractive, precise and durable. The B97 VPW has proven to be a reliable, fully mature breakthrough product in precision measurement and valve control.

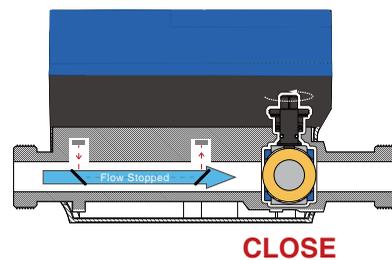
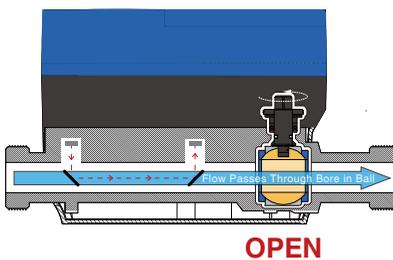
In addition, the special compact design does completely assure the quality of water-proof protection. This proof is guaranteed even if it is installed under water in a long time. Moreover, the core engineering concept of B97 VPW aims at cutting down the budget on overall operating costs from remote meter readings. It also helps utility enhance its cash flow by collection of none-revenue-water (NRW).

01 The Solution for Addressing NRW

B97 VPW provide an all-in-one smart water meter solution, it offers up to R400 measuring range ratio (Q_3/Q_1) which is far better than standard mechanical water meter, smaller water flow rate can be measured to help utility collect every drop of water without any waste. By adopting a ball valve B97 VPW is able to perform as a prepayment meter or remotely valve control meter, both approaches bring values to utility by significantly increment of water bill collection.



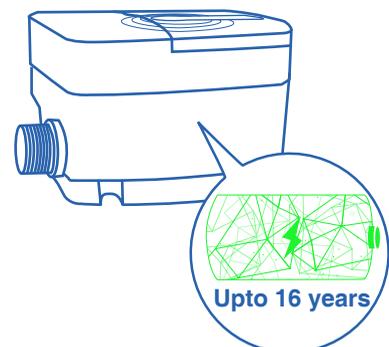
02 Compact Design



Integration design of measuring part and ball valve in one meter, easy for installation, communication, maintenance, and transportation. B97 VPW can be installed either in horizontal or vertical direction by no loss of measuring accuracy. Water utility can choose prepayment function, or remotely valve control for those who refuse to make water bill payment on time.

03 Durable Service Period

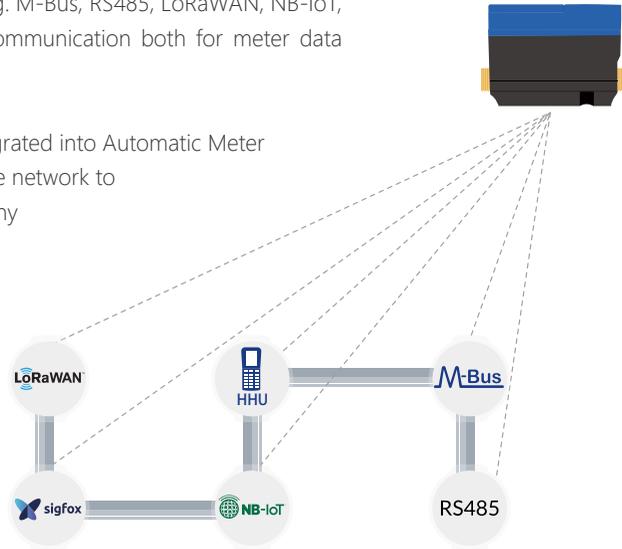
B97 VPW presents either IP65 or IP68, and its body is fabricated from durable Brass 59-1 material. This robust design makes the B97 VPW maintenance-free and highly precise with extraordinary, durable service period, which could be upto 16 years.



04 AMR Ready (wired & wireless)

B97 VPW support multiple communication interfaces for both wired and wireless which suitable for any type of installation environment, e.g. M-Bus, RS485, LoRaWAN, NB-IoT, Sigfox. These interfaces support bi-directional communication both for meter data reading and valve control.

With communication interfaces meter is easily integrated into Automatic Meter Reading (AMR), which provide reliable and scalable network to utility and bring down the meter reading cost for any application.



05 Water Proof, suitable for indoor and outdoor application

B97 VPW is designed with special material enclosure to sustain durable installation in rain, high humidity surroundings, and direct ultraviolet rays from the sun. No meter enclosure deformation in high temperature and high humidity by state of the art design of IP68 protection class of the B97 VPW water meter.



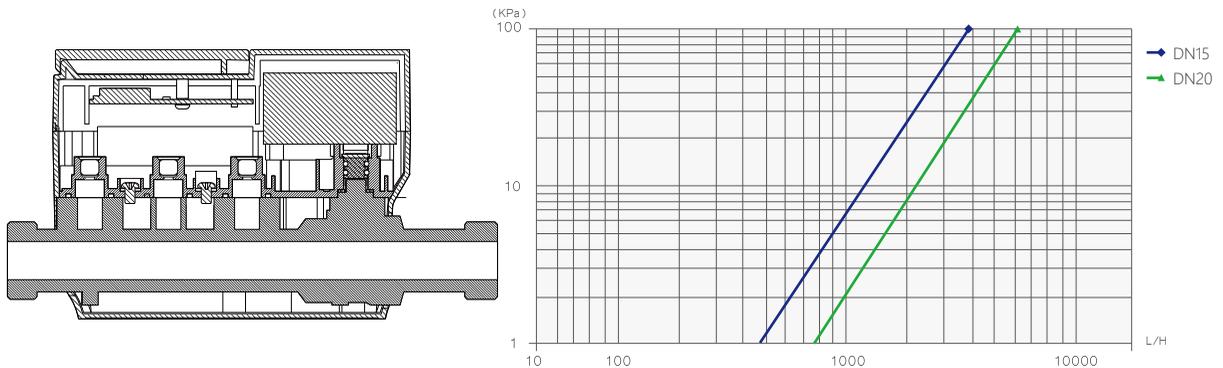
DIMENSIONS

Model	B97 VPW-15	B97 VPW-20
Pipe Diameter	DN15	DN20
Minimum Flow Rate, Q_1 (m ³ /h) @R400	0.00625	0.01
Permanent Flow Rate, Q_3 (m ³ /h)	2.5	4.0
Connection	G3/4'	G1'
Length (mm)	165	195
Width (mm)	90	100
Height (mm)	103	100
Flow Meter Connector	R1/2'	R3/4'

TECHNICAL SPECIFICATION

Temperature	<ul style="list-style-type: none"> • Medium Range: 0.1°C.....30°C / 50°C (T30 / T50) • Ambient temperature: 5~55 °C • Storage temperature: -20~60 °C
Metrological Class	Class 2, R160/ R200/ R250/ R400
Maximum Operation Pressure	1.6Mpa
Pressure Loss	$\Delta P \leq 40\text{kPa}$
Pressure Stage	PN16
Stream Field Sensitivity	U5/ D3
Protection Class	IP65/ IP68
Battery (Optional)	6/10/16 years service life
Data Storage (Optional)	24/ 120 logs, daily/ weekly/ monthly.
Environmental Requirement	E1, M1, B
Interface & Communication (Optional)	<ul style="list-style-type: none"> • M-Bus • RS485 • Optical port • LPWAN (LoRaWAN, NB-IoT, Sigfox)
Installation	360 degree
Display and Indication	<ul style="list-style-type: none"> • Unit: L/ m³/ Gal (Optional) • LCD: 8-digit
Standard Compliance	<ul style="list-style-type: none"> • EN14154 • ISO 4064 • OIML R 49

B97 VPW Valve Control / Prepaid Ultrasonic Water Meter Pressure Loss



WHY CHOOSE Bove Technology.....

When it comes to water flow measurement, Bove is the one of the most excellence. And we want to explain why you should trust us when we say that choosing a Bove products equals choosing reliability.

In our manufacturing plant, you will find a dedicated research and development team that gives us the ability to face your local needs and challenges head-on—regardless of size or requirements. And thanks to our in-house laboratories and highly-skilled engineers, we can develop innovative and user-friendly products faster than ever. A manufacturing capacity reaching millions of units in our plant ensuring on-time delivery, and meanwhile Bove ensures the highest level of quality and reliability through standards such as ISO 9001 and ISO 14001.....