








Automatic Standpipe (BFA*)

THE CASHLESS DRINKING WATER MANAGEMENT SOLUTION, AVAILABLE 24/7 AND FULLY SECURE FOR SEMI-URBAN AND RURAL AREAS IN AFRICA

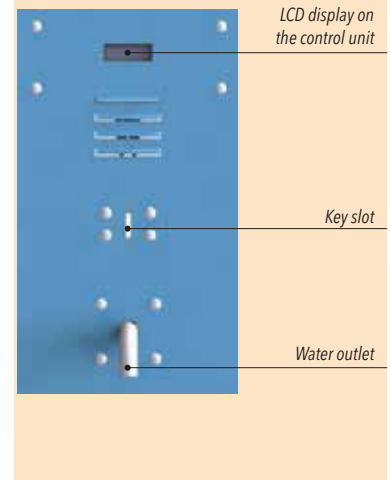
15 years' experience in Africa

An autonomous automatic standpipe offers uninterrupted community water point management.



-  The user simply enters their RFID key to draw water. The water cuts off when the key is removed.
-  With its solar panel, the automatic standpipe is entirely autonomous, and does not require any radio or telecommunications link.
-  The BFA has a steel structure with an epoxy protective coating, and is highly resistant to external hazards.
-  Credit on the key can be reloaded using an electronic payment terminal, secured by cryptography.
-  All the components are designed for quick and easy maintenance.
-  The BFA is operational from pressure of 0.2 bar.
-  The standpipe can be customised.

MAIN COMPONENTS



Electronic payment terminal



Wireless communication (offline) from any smartphone to configure the automatic standpipe and read the operating data



Key containing an RFID chip



* Borne-Fontaine Automatique = Automatic Standpipe, in French.

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TECHNICAL SPECIFICATIONS

TAP(S)

Fitted with two taps, the standard BFA model lets two users fill up with water at the same time. However, there is an optional version with a single tap.

CONTROL UNIT

Includes a clock backed up using a lithium battery (10-year operating life).

Alphanumerical LCD display: time and date, meter index, key identification, credit remaining on the key.

Wireless communication (offline), with no dedicated app required, used to set the operating parameters and download data.

KEY READER

Made from PVC.

Self-cleaning slot: foreign bodies (earth, wood, etc.) are pushed out when the key is inserted.

BATTERY

Specifications: 12V 7 Ah. No servicing required.

Option: 90-260 V mains power supply/charger.

HYDRAULIC SET-UP

Equipment comprises: water inlet (40 mm), stopcock, Hall-effect electromagnetic flowmeter. Filter.

Option: pressure relief device.

PHOTOVOLTAIC MODULE

Power: 20 Wc - 12 V.

Built into housing that rotates 360° (by 90° increments).

KEY

Plastic.

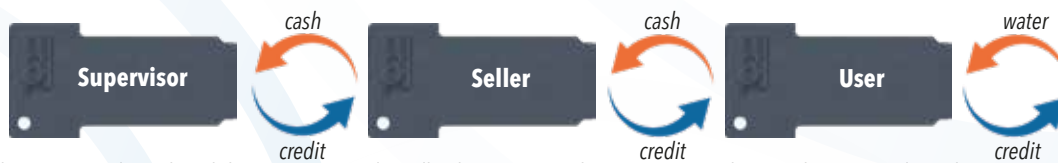
6 mm thick.

Can be submerged in water.

Contains the following information: network (or water authority or municipality) identification code, key serial number, standpipe identification, water quota and prepaid water quantity.

This information is encrypted.

A FULLY SECURE PAYMENT SYSTEM: THE CREDIT CHAIN



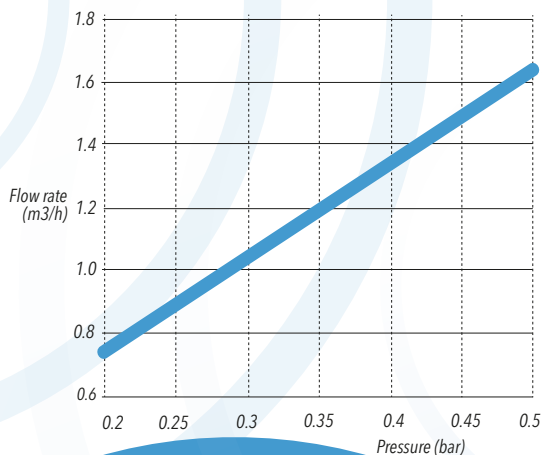
The "supervisor" key is the only key permitted to **generate credit**. When inserted in the electronic payment terminal, it can reload the "seller" key directly or indirectly using a code.

The "seller" key contains credit and can be used to **reload the "user" key via the electronic payment terminal**.

The "user" key contains the credit preloaded for the user and can be **used to pay directly for the volume consumed at the BFA**.



FLOW RATE OF A STANDARD BFA (2 TAPS)*



PLEASE NOTE: Flow rate is largely dependent on the configuration of each site. This graph is therefore provided for information only. **VERGNET HYDRO cannot make any contractual commitment on the flow rate of the BFA.**

Source: tests carried out by the VERGNET HYDRO design office, updated in May 2022.

* The flow rate shown is the flow measured for each of the two taps.



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