

SmartValve™

Wireless Shut-off Valve



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The SmartValve™ Wireless Shut-Off Valve offers a convenient manner in which to facilitate the disconnection and reconnection of water consumers, by means of a radio controlled water valve.

The SmartValve™ System



SmartValve™ Wireless Shut-off Valve

The system, based around the principle of remote disconnection, functions by use of a hand held unit to wirelessly communicate with the external control unit within a tamper proof box, by closing or reopening the water control valve.

This unique product ensures no unpleasant exchanges with customers and provides a real deterrent to bad payers and perpetual non-payers.

The easy to use Hand Held Unit provides a two way link to installed units, allowing disconnection or reconnection, followed by a confirmation of current valve status. The operator walks or drives by the target applications and enters the appropriate serial number. This triggers the valve into either opening or closing. The status of the valve is then sent back to the hand held unit, which on return to the base station, is uploaded to update the customer database with all the locations visited.

The SmartValve™ installation can be fitted in a multitude of positions on the pipe line that leads to the customer's premises, but due to the tamper proof housing, the utility can be safe in the knowledge that it will not be interfered with in anyway, thus ensuring its performance when required.

The robust valve utilised has NSF 61 approval, as well as having all the required standards for use within potable water. Its performance can be relied upon to operate frequently, as well as infrequently.

Components

SmartValve™: Valve enclosure

- Hand Held Control Unit and Valve Box communicate via radio frequency (RF), with a maximum distance of 200m - range is dependent upon installation topography
- Incorporates a tamper switch that will automatically shut the water control valve if triggered
- Power supply - 3.6v lithium battery. Expected battery life 10 years under normal operating conditions

Hand Held Unit

- Control unit sends a signal via RF to either open or close the valve in the supply line to the consumer premises
- Valve selection by means of unique serial code programmed into to each valve box
- Tamper reset facility

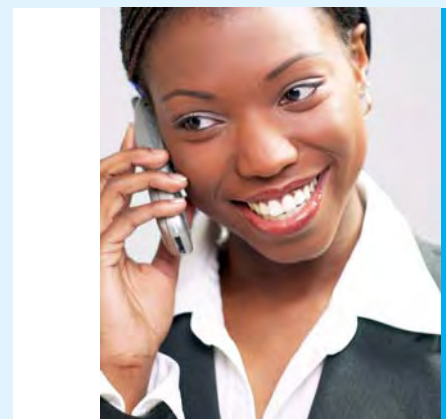
Typical Hand Held operation of SmartValve™



Features and Benefits

Features and Benefits of SmartValve™

FEATURES	BENEFITS
Wirelessly controlled shut-off valve	Ensures no confrontation from customers
Debt Management device	Eliminate or reduce expenditure in debt prevention
Secure sealed housing	Tamper proof
IP68 component protection	Provides lasting durability
200m range	No access to premises required
10 year battery life	Provides long term reliability
Low battery status alarm	Warning for investigation
Various radio frequencies	Ensures product operates on unlicensed band
Latching Solenoid Valve	Ensures robust performance
Variable installation sizes	Provides product solution up to 12"
Pressure rating of 16 bar and tested to 20 bar	Conforms to correct technical characteristics
Grivory Material	Provides WRAS approved with strength and performance





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