

BAUGH & WEEDON

NDE

PIPECHECK 3

Water Pipe Verifier



PipeCheck 3 is a simple to use hand-held instrument which positively identifies pipes filled with water and other fluids. PipeCheck 3 is designed to address the major identification problems, experienced by engineers engaged mostly in the water and gas service industries, when old cast or spun iron pipes are exposed. Often it is extremely difficult to tell whether or not these pipes contain water until they are breached. Mistaken identification is potentially unsafe and may be extremely costly to rectify.

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How does it work?

PipeCheck 3 uses ultrasound to indicate whether a pipe contains water or not. The pipe is cleaned by removal of all external soil and loosely adhering rust. A coupling gel, which enables transmission of sound from the instrument to the pipe wall, is applied.

When the instrument detects a full water pipe a green light and audible alarm are activated. This can only occur when certain electronic criteria are satisfied within PipeCheck 3. Otherwise a red light shows.

PipeCheck 3 generates ultrasound which travels readily through fluids. When the probe is in contact with a pipe, an ultrasonic signal is transmitted into the pipe wall. This causes a series of standing echoes to develop. If the pipe is full of water, and certain criteria are satisfied, a fraction of the ultrasound will travel across the internal diameter of the pipe and return, by the same path, to the PipeCheck 3. This generates the "water" response.

If the pipe contains gas, whether natural gas or air, or other contents the sound remains within the pipe wall and the red light is triggered, because sound will not travel within the pipe.

Numerous red lights only, suggest a gas pipe, a "dead" pipe, a telecom trunking, a cable duct, or a heavily corroded and constricted water pipe.

Similarly, if the pipe contains water, but is heavily corroded and/or is heavily tuberculated, then the red light may trigger. For this reason it is recommended that a pipe is tested several times in different places, and if a water response is achieved and repeated, it can be relied upon.

The PipeCheck 3 is the latest in the PipeCheck Series and has been used successfully in the UK Gas and Water Industries for many years.

SPECIFICATION

Pipe Diameter Range	90-325 mm (3.5 to 12.8 inches).
Wall Thickness Range	5-25 mm (0.20 to 1 inch)
Pipe Materials	Steel, Cast Iron, Plastic.
Pipe Linings	Plastic and Concrete (if both are well bonded)
Power Supply	PP39 volt battery (Alkaline type)
Indicators	Green LED and Audible Sounder for Water. Red LED for Gas, "Dead" pipe, Cable duct, Telecom trunking, or "No" test.

STANDARD KIT

- PipeCheck 3 instrument
- Fitted Battery
- Probe with integral cable
- Wire Brush
- Couplant
- Operator Handbook
- Plastic Transit Case
- Comprehensive two year guarantee.
(excluding probe)

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