



QINOV8

THE FUTURE
FOR LEAK REDUCTION

AQUAPEA®

LASTING INLINE REPAIRS WITHOUT EXCAVATION

AQUAPEA® revolutionises water distribution networks pipe repair and maintenance.

By introducing our advanced formula polymer AQUAPEA® into the water system, you can repair leaks within an hour, and without having to carry out costly excavations.

HOW AQUAPEA® WORKS

STEP

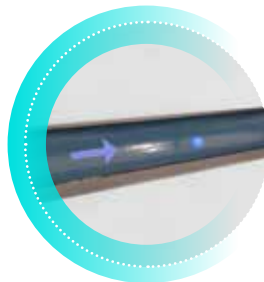
1



Introduce the AQUAPEA® into the water at an external meter chamber (UK) or via an AQUAPEA® insertion kit (International)

STEP

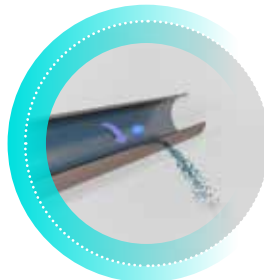
2



The AQUAPEA® is drawn to the leak by the flow of escaping water.

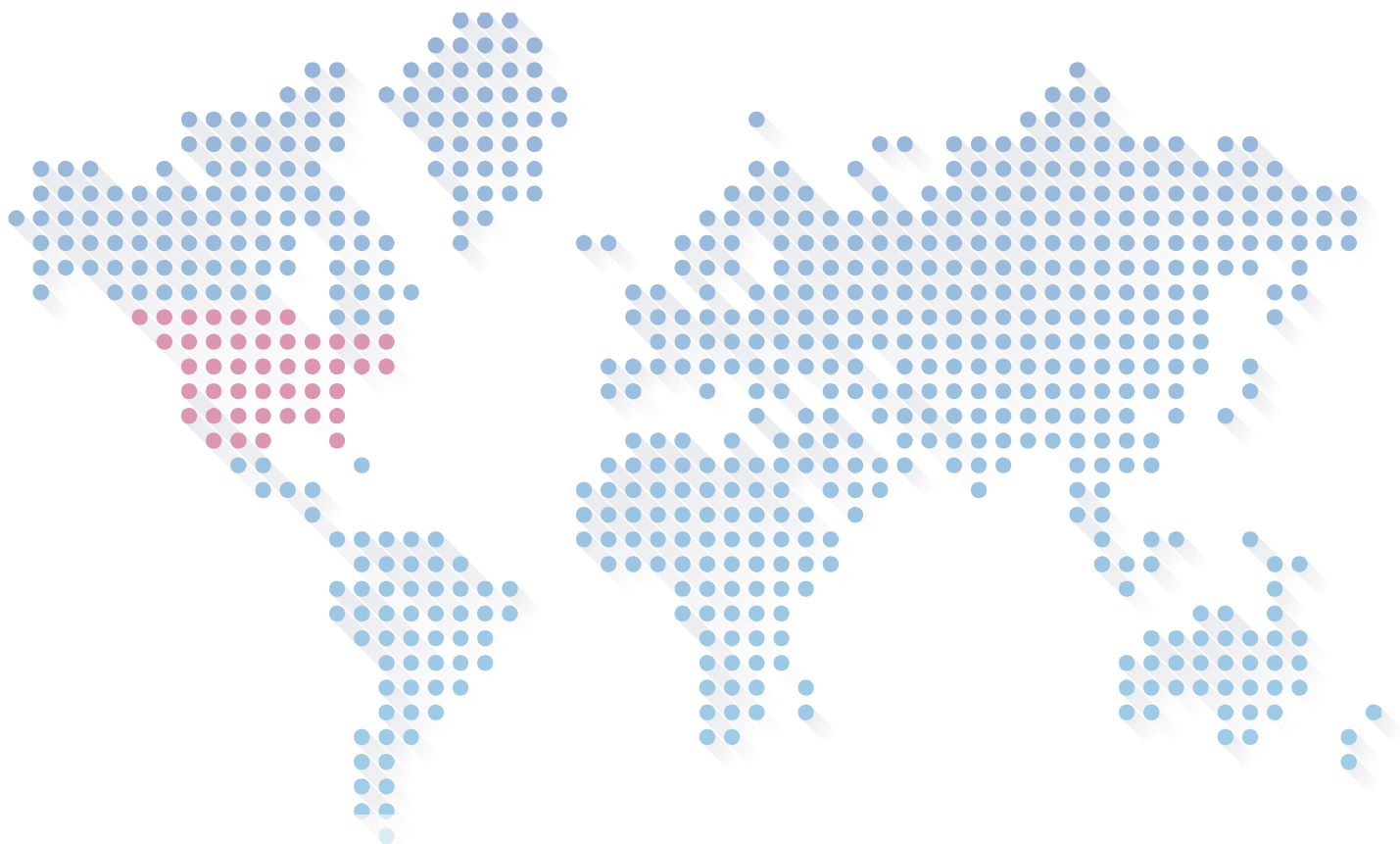
STEP

3



Kept under pressure, the advanced polymer forms through and around, sealing the leak.

GLOBAL SUCCESS



US

98%

SUCCESS IN
REDUCING LEAKAGE*

*COPPER PIPE



WATER SAVINGS ARE
MADE GLOBALLY
AVERAGE WATER SAVING
PER 100 LEAKS

1,000,000

LITRES EVERYDAY

UK & REST OF WORLD

71%

SUCCESS IN
REDUCING LEAKAGE

ACROSS MULTIPLE PIPE
MATERIALS *ALKATHENE,
COPPER, LEAD & MIXED

QUICK RESULTS, LONG-TERM SAVINGS



Immediate response

AQUAPEA® can be implemented as soon as the leak is discovered and validated.



Easy to use

AQUAPEA® can be used without needing to excavate or replace pipework.



Planet saving

Eliminates onsite excavations. This dramatically reduces the environmental impact of any pipe fix.



A long term solution

Laboratory tests prove the Aquapea is a long term solution as the polymer bonds strongly, adhering to any type of commonly used pipe material.



Fast customer satisfaction

AQUAPEA® gets to the leak and repairs it fast, giving customers a fix within one hour.



Multiple cost savings across networks

AQUAPEA® can be used across networks to reduce the cost of repairs and leakage.

CUSTOMER SATISFACTION



The AQUAPEA® has been a fantastic addition to our leakage toolbox. It has given us new opportunity to reduce/fix leakage the day we find it.

We have been using the product for nearly a year now and have seen some fantastic results. It has been successful around 70% of the time and given an average leakage reduction of 60%.*

It's a cheap and effective solution to dealing with leakage that will also provide a great customer experience."

Severn Trent Water,
Leak Management Team.



71%

SUCCESSFUL APPLICATIONS



£970+

AVERAGE SAVING PER APPLICATION
COMPARED TO
TRADITIONAL METHODS

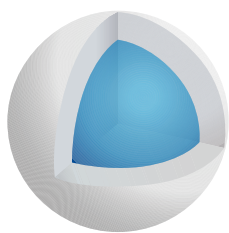


10,000

LITRES OF WATER SAVED
PER APPLICATION

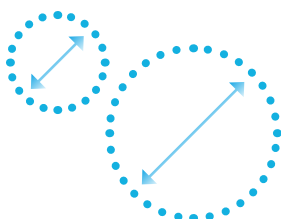
*.The above figures represent the actual savings made by Severn Trent Water.

SIMPLE YET SOPHISTICATED TECHNOLOGY



AQUAPEA® is created using two components:

- Specially formulated polymer outer cover
- Central polypropylene floatation and plug-in aid



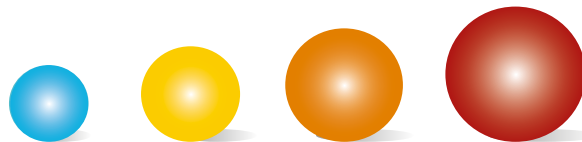
Ideal use for:

- Any material of pipework
- Fixes and reduces leaks in pipework from 15mm - 50mm.



The range:

- The AQUAPEA® comes in a range of 4 sizes
- Each is colour coded depending on the application and the size of the hole or split in the pipework.



Ø 4-10 LPM*

Ø 10-15 LPM

Ø 15-20 LPM

Ø 20-25 LPM

*Litres per minute



ACCREDITATIONS & AWARDS

A major goal of our development was to give our customers the complete confidence of full accreditation. We're proud to say we've also picked up a number of awards and some major partners along the way.



Having won 3 National Innovation Awards the AQUAPEA® has now won the prestigious QUEEN'S AWARD FOR ENTERPRISE in INNOVATION 2022.



AQUAPEA® has material approval for use within domestic water supplies by the Water Regulations Advisory Scheme (WRAS). Meeting the requirements of BS6920-1:2000 and/or 2014.



AQUAPEA® is officially NSF/ANSI/CAN 61 Certified. Meeting the regulatory requirements for the US, Canada and many other countries too. This provides customers with assurance that the product does not leach harmful contaminants into drinking water.

FACTS THAT SPEAK
FOR THEMSELVES

99%

REDUCTION
IN CARBON
FOOTPRINT

LEAKS FIXED IN
1 HOUR

AWARD
WINNING

ZERO
EXCAVATION

10,000

LITRES PER DAY SAVED
PER APPLICATION

THE MORE EFFECTIVE FIX

There needs to be a leakage volume of at least 4 litres a minute to successfully launch and operate AQUAPEA®.

The operating temperature range is between -20°C and 100°C.

Insert into the supply pipe via a water meter chamber (UK) or an AQUAPEA® insertion kit (International).

Once the AQUAPEA® seals the leak, it takes 15 minutes to cure and bond to the pipe, and tests show it can stay in place for over 30 years.

INTERNATIONAL (NON-UK) AQUAPEA® INSTALLER INFORMATION



QINOV8 have designed an AQUAPEA® insertion kit for use in other countries because in the UK we have direct access into the pipe through water meter chambers.



We only provide advice on building and using AQUAPEA® Insertion Kits because plumbing/utility companies can build these easier and cheaper.



The Aquapea insertion kit gives the installer control of the water supply and helps to accurately quantify the volume of the leak to determine which size/colour AQUAPEA® to use and also provide easy AQUAPEA® access into the pipework.



The kit can be connected at angle stops, meter positions etc. by connecting the inlet and outlet to existing pipework or fittings.



Materials – copper pipe and copper fittings, 3 x ¾ turn valves, an analog water meter and a pressure valve (this is optional). The kit can also be made using plastic pipes, fittings etc.



Our Director Michael Quinn discussing the AQUAPEA® with HRH The Prince Of Wales, Prince Charles at Buckingham Palace following QINOV8's Queens Award for Enterprise success for Innovation 2022



SUPPORT

Training

So far we have trained and certified 100s of technicians in using AQUAPEA® at our training and testing facility in County Durham, England. Each trainee undertakes numerous test applications to make sure they have a solid understanding.

Online training: we are currently integrating an extensive online video training guide on our website for all of our customers.

Know-how

We offer continuous advice and technical know-how to qualified technicians to help them get the best results and repairs, using our product.

Reporting

We have a unique link and reporting tool for each AQUAPEA® that has been used. This means we have in depth reports into the operational benefits and success metrics of each and every application. These include job referencing, leakage volumes, water saving, pipe type and more.

OUR STORY

QINOV8 founders and AQUAPEA® inventors, the Quinn Brothers, have decades of first hand on the ground experience as engineers.

“Our aim was to create a market leading leak detection and reduction technology, which not only saved water, time and money, but directly reduced unnecessary excavations.

These solutions that we continue to develop will create a more efficient, more cost effective and greener way to help our planet save water. It’s a future we can all look forward to.”



TECHNICAL SPECIFICATIONS

KNEADING/MIXING POLYMER TIME	30 SECONDS
POLYMER CURING TIME	15 MINUTES
MINIMUM LEAKAGE RATE REQUIRED	4 LITRES PER MINUTE/ 1 GALLON PER MINUTE
MAXIMUM LEAKAGE RATE REQUIRED	25 LITRES PER MINUTE/ 6.5 GALLONS PER MINUTE
PRODUCT CERTIFIED TO NSF/ANSI/CAN 61 AND CONFORMS TO NSF/ANSI/CAN 372, TO THE REQUIREMENTS FOR "LEAD FREE" PRODUCTS AS DEFINED BY CALIFORNIA, VERMONT, MARYLAND AND LOUISIANA STATE LAWS AND BY SECTION 1417 OF THE US SDWA.	TESTED UP TO 23°C
PRODUCT HAS PASSED THE WATER REGULATIONS APPROVAL SCHEME (WRAS) HAVING MET THE REQUIREMENTS OF BS6920-1:2000 AND/OR 2014 'SUITABILITY OF NON-METALLIC PRODUCTS FOR USE IN CONTACT WITH WATER INTENDED FOR HUMAN CONSUMPTION WITH REGARD TO THEIR EFFECT ON THE QUALITY OF THE WATER'.	TESTED UP TO 23°C
PRODUCT HAS PASSED ISRAELI STANDARD 5452 (2016)	
PRODUCT HAS PASSED AS/NZS 4020:2018 COMPLIANCE	
CURES IN TEMPERATURES FROM	20°C TO 100°C
HIGH RESISTANCE TO ACIDS, OILS, PETROLEUM AND SOLVENTS	

ENVIRONMENTAL SPECIFICATIONS

ON AVERAGE EACH APPLICATION SAVES	4.5 KW/H OR 108 KW/D OF ELECTRICITY (ENOUGH ENERGY SAVED TO POWER 10 HOMES EVERY DAY)
CARBON EMISSIONS	ZERO PER SUCCESSFUL APPLICATION
EXCAVATIONS	ZERO PER SUCCESSFUL APPLICATION
BACKFILL AND FINISHED GROUND MATERIALS REQUIRED	ZERO PER SUCCESSFUL APPLICATION
DUST EMISSIONS	ZERO PER SUCCESSFUL APPLICATION

APPLICATIONS/MARKETS

RESIDENTIAL	HOUSES, APARTMENTS/FLATS/CONDOS, BUNGALOW/COTTAGES
COMMERCIAL	OFFICES, RETAIL PARKS, HOTELS, MANUFACTURING FACILITIES (SMALL AND LARGE FACTORIES, WAREHOUSES), EDUCATION FACILITIES (SCHOOLS/COLLEGES/ UNIVERSITIES), RETIREMENT HOMES/ NURSING HOMES, HOSPITALS, RELIGIOUS PROPERTIES, GOVERNMENT BUILDINGS, MILITARY ESTABLISHMENTS

ON ALL LEAKING PIPEWORK FROM 15MM TO 50MM

ACTIVELY TESTED AND ADOPTED BY

CUSTOMERS



PARTNERS



CONTACT

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