

Leak Finder User Guide

Proven technology for
customer side leakage
pinpointing



Leak Finder – Operation

- Highly innovative system
- Provides accurate and reliable pinpointing in traditionally difficult leak detection situations, such as on plastic pipelines.
- Allows operators to pinpoint the leak position and therefore speed repair and reduce excavation costs to a minimum.
- Primarily designed for Customer Side Leakage (CSL), but equally applicable to other pipe applications within the designated range.



Leak Finder – Deployment



Halma Water Management

- Leak-Finder is connected to an open end, or fitting of the test pipe using a section of MDPE.
- The hose is reeled through the Leak- Finder control and inflation unit into the end of the pipe, with an appropriate bladder in place.
- The operator inflates the bladder to block a chosen section of the pipe; this section is then pressurized from the pump at the central unit.
- Control unit dials indicate whether the test section is holding pressure or failing, thereby establishing whether or not a leak is present.
- The bladder is easily deflated and moved, to change the section under test and to accurately pinpoint the exact position of the leak.
- The operator knows exactly the length for connection point to the leak.
- Accessory options are available to trace the run if necessary.

Leak Finder – Equipment



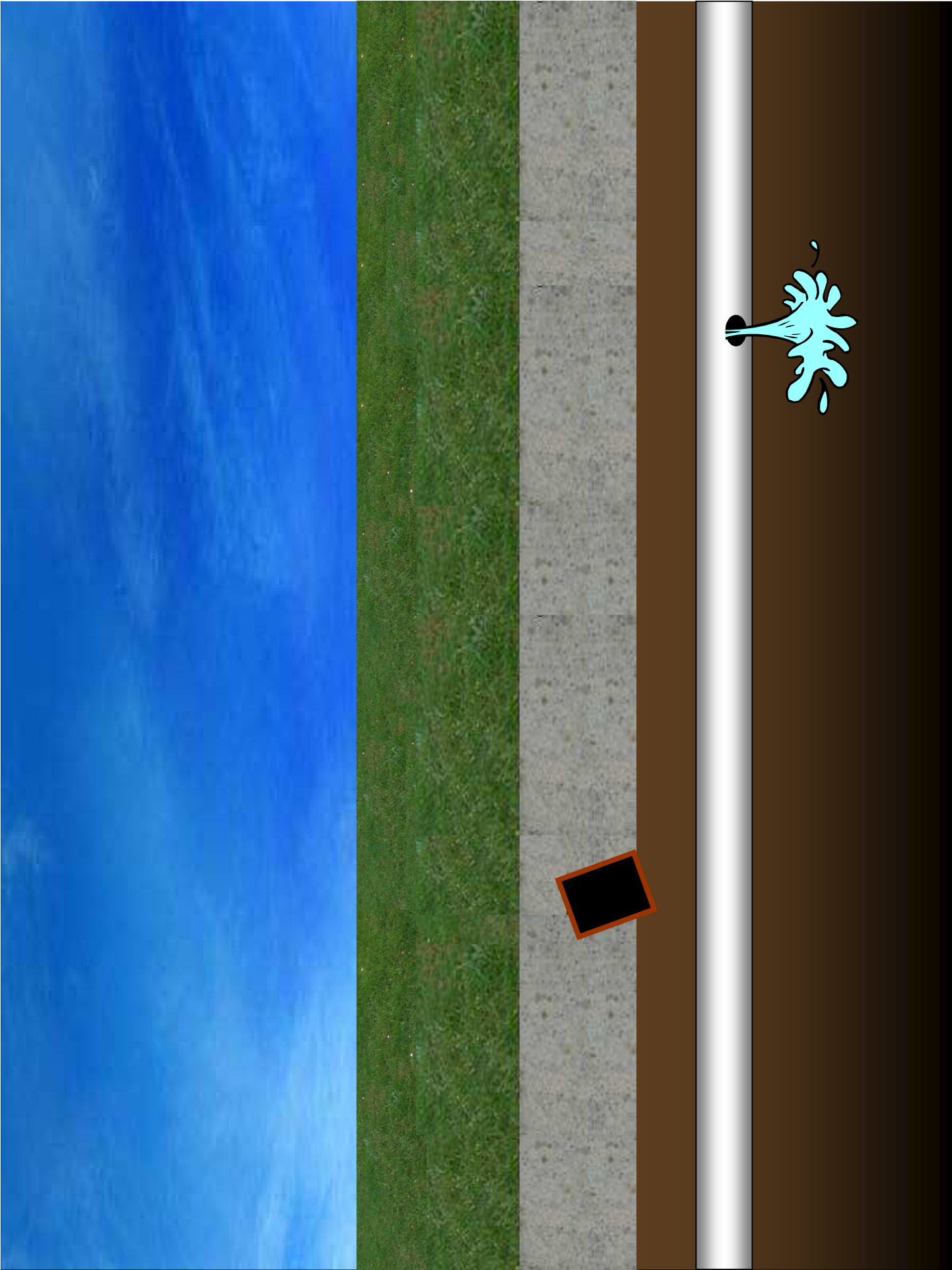
Halma Water Management

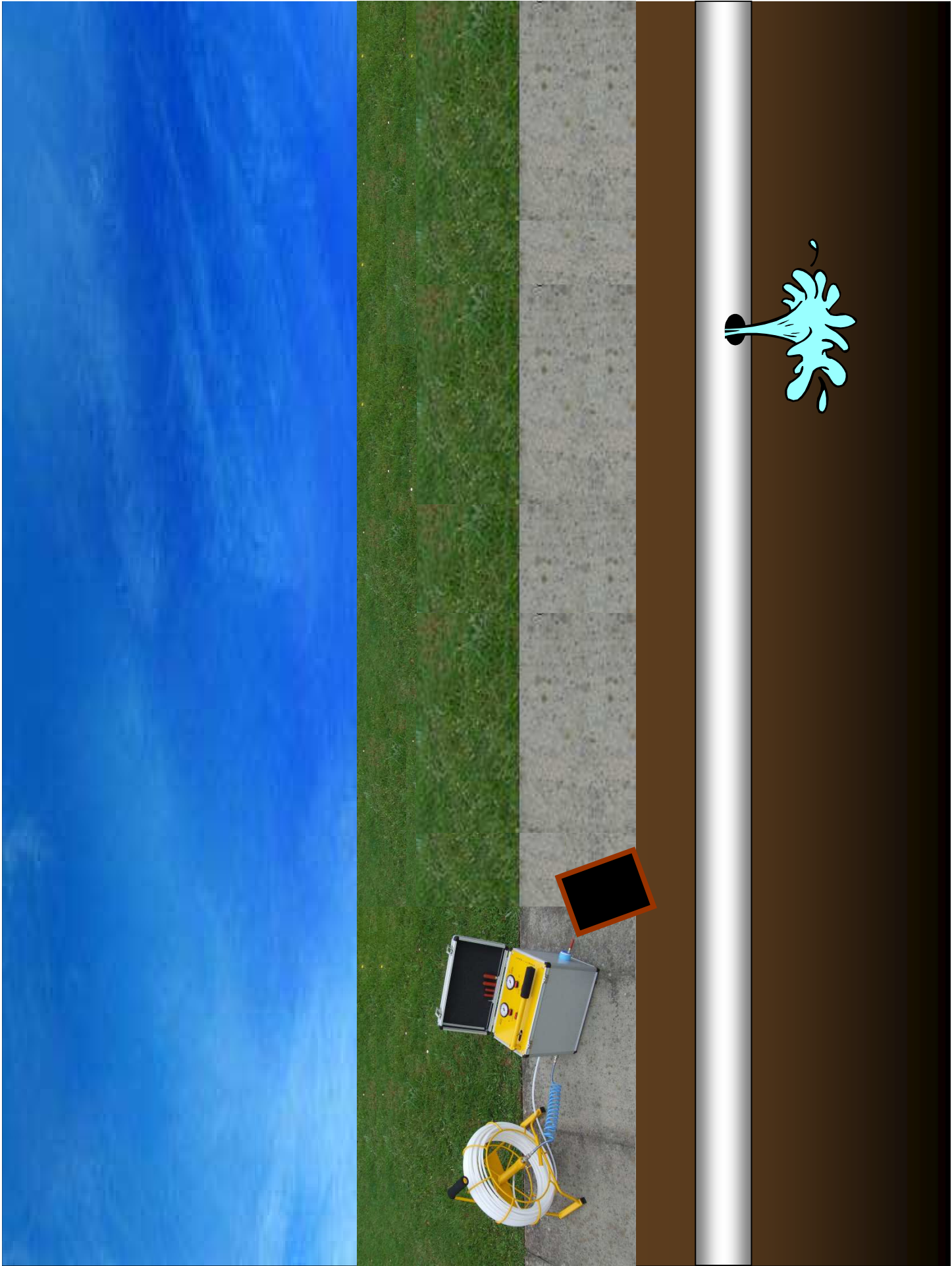
Leak Finder is supplied with standard equipment as follows:

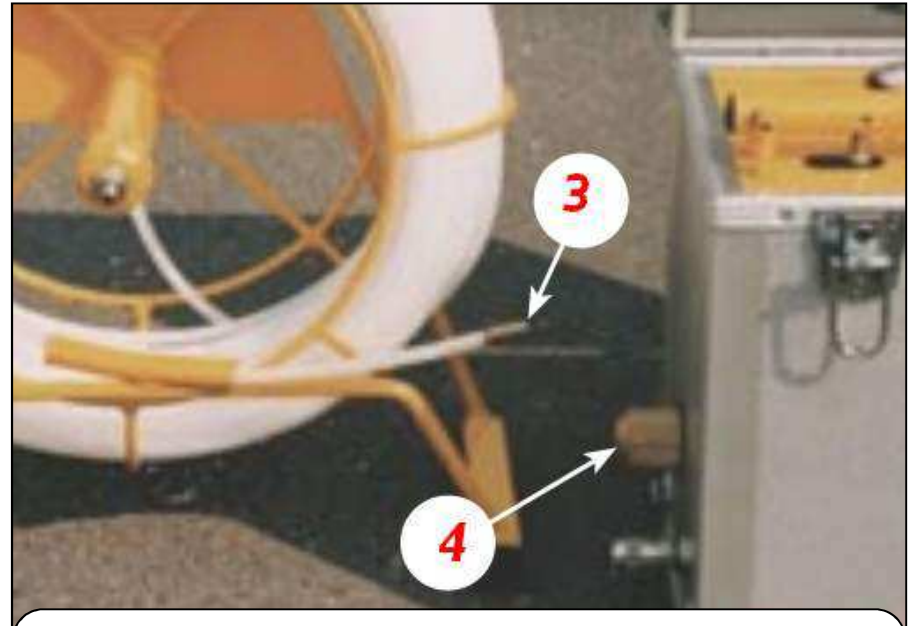
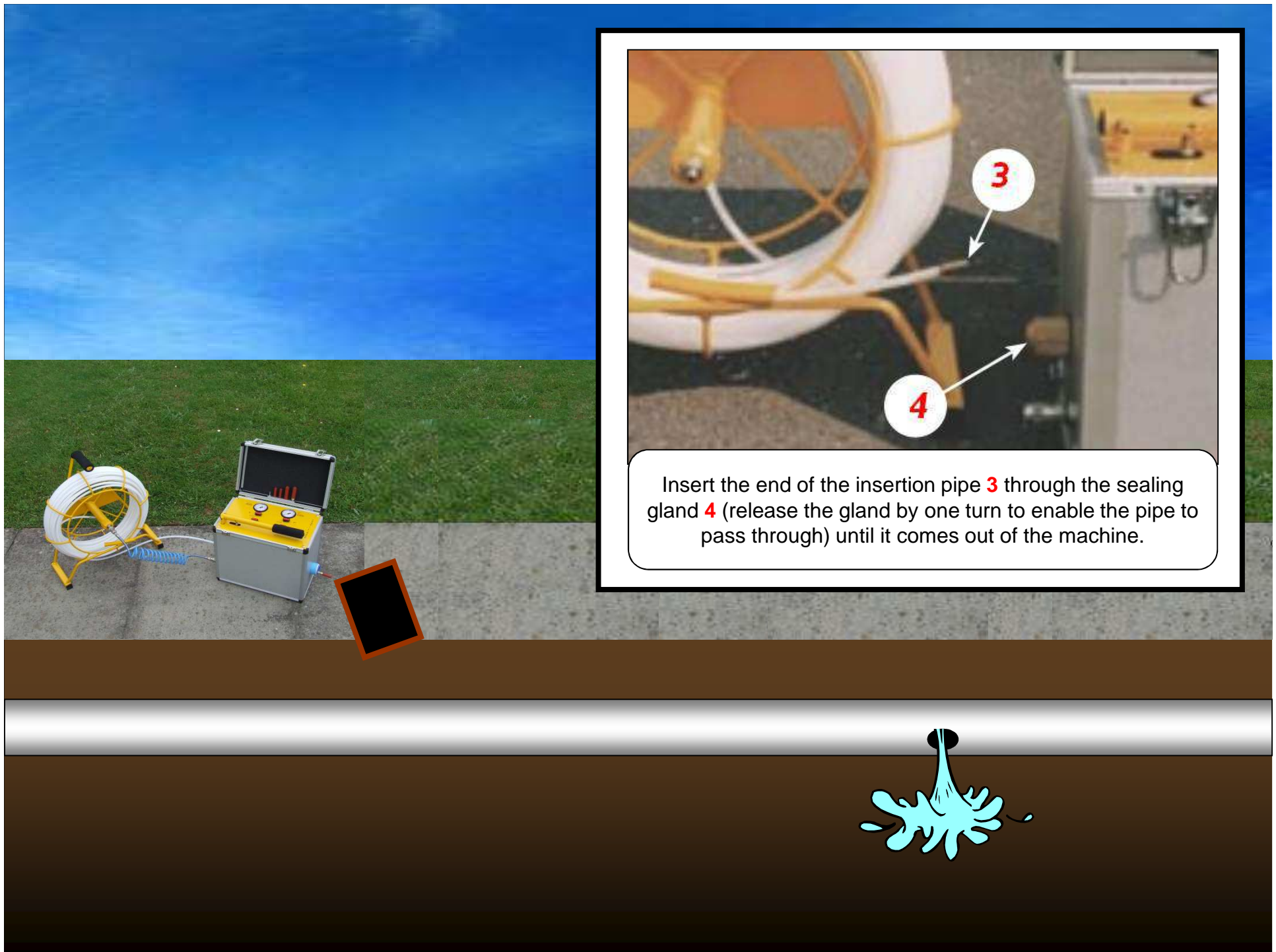
- Control unit with integral manual pump, and indication dials
- Reel with 50m of plastic tube for insertion and inflation of the bladder
- Standard set of bladders for pipe up to 50mm diameter pipes
- Hose connection from control unit to reel
- Operating Manual.



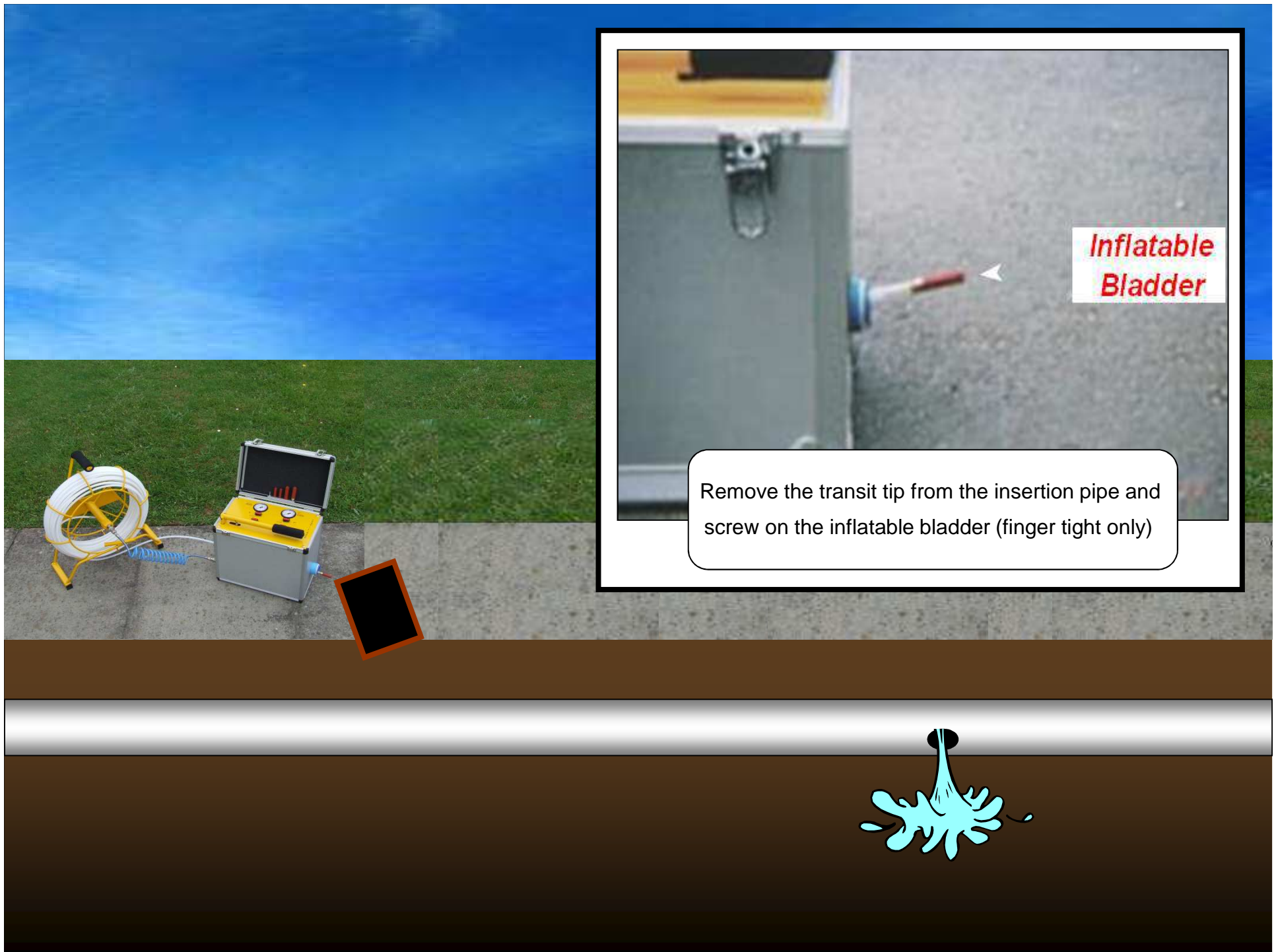
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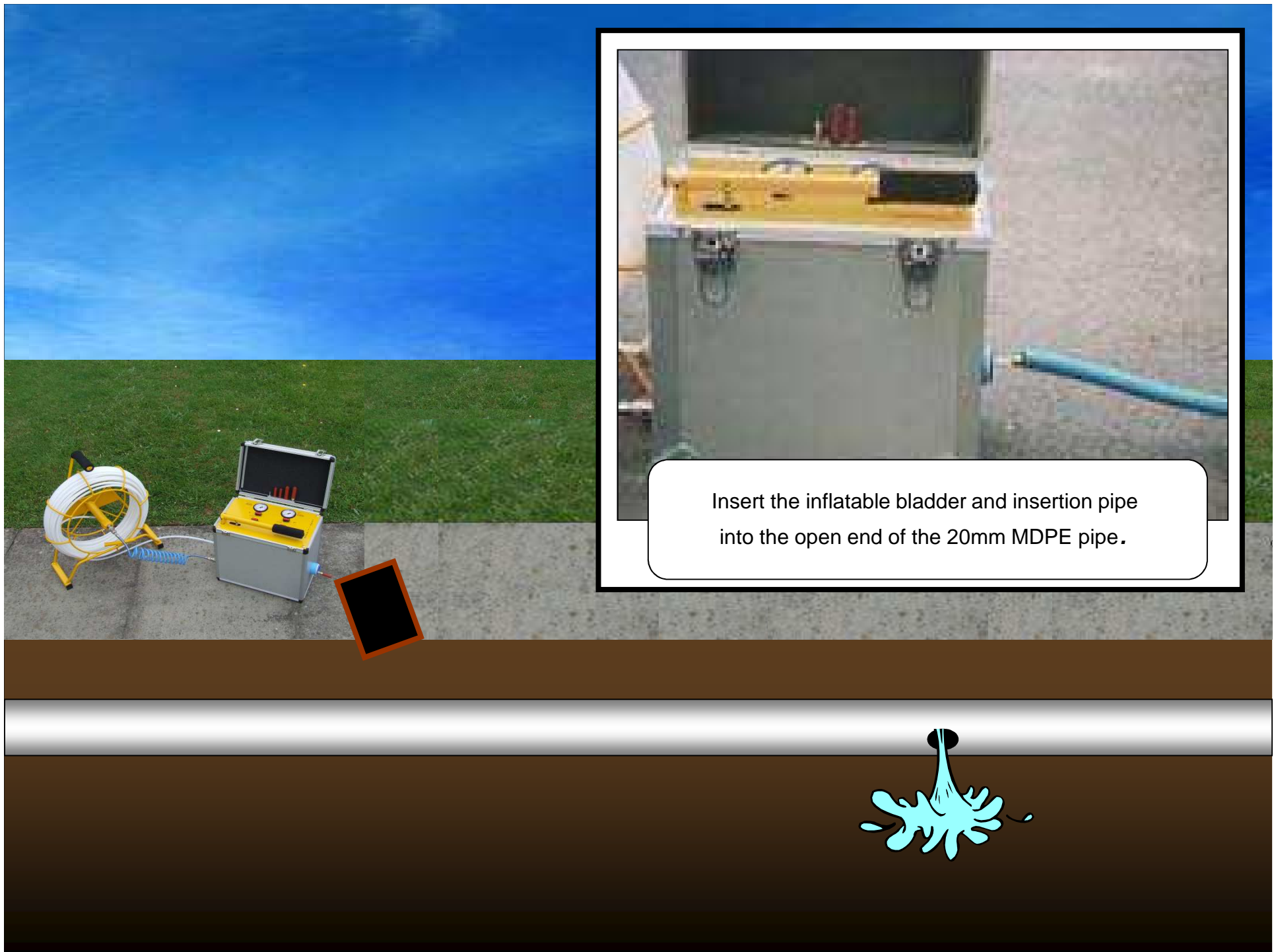


Insert the end of the insertion pipe **3** through the sealing gland **4** (release the gland by one turn to enable the pipe to pass through) until it comes out of the machine.



**Inflatable
Bladder**

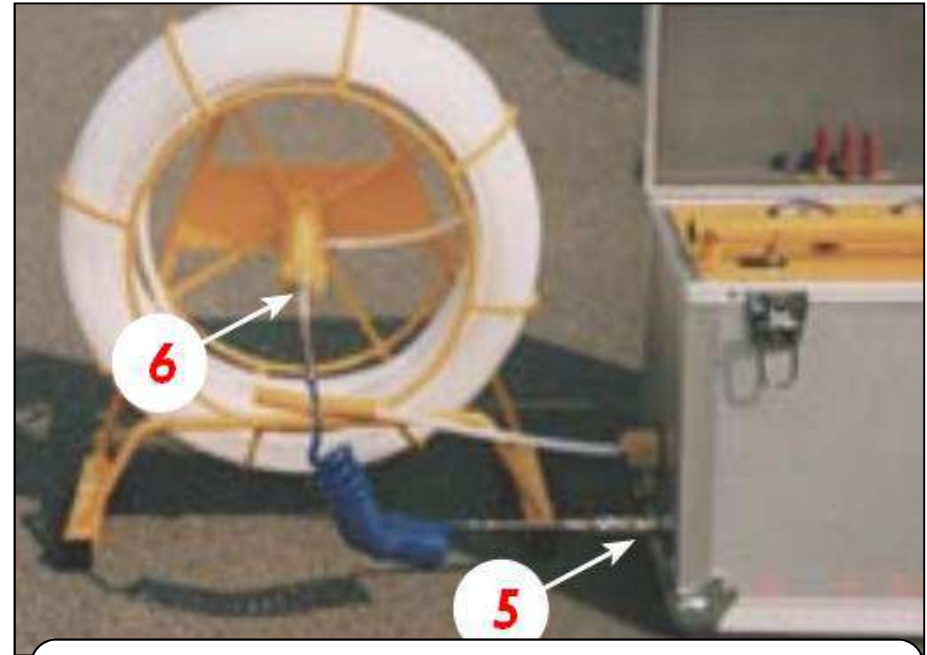
Remove the transit tip from the insertion pipe and
screw on the inflatable bladder (finger tight only)



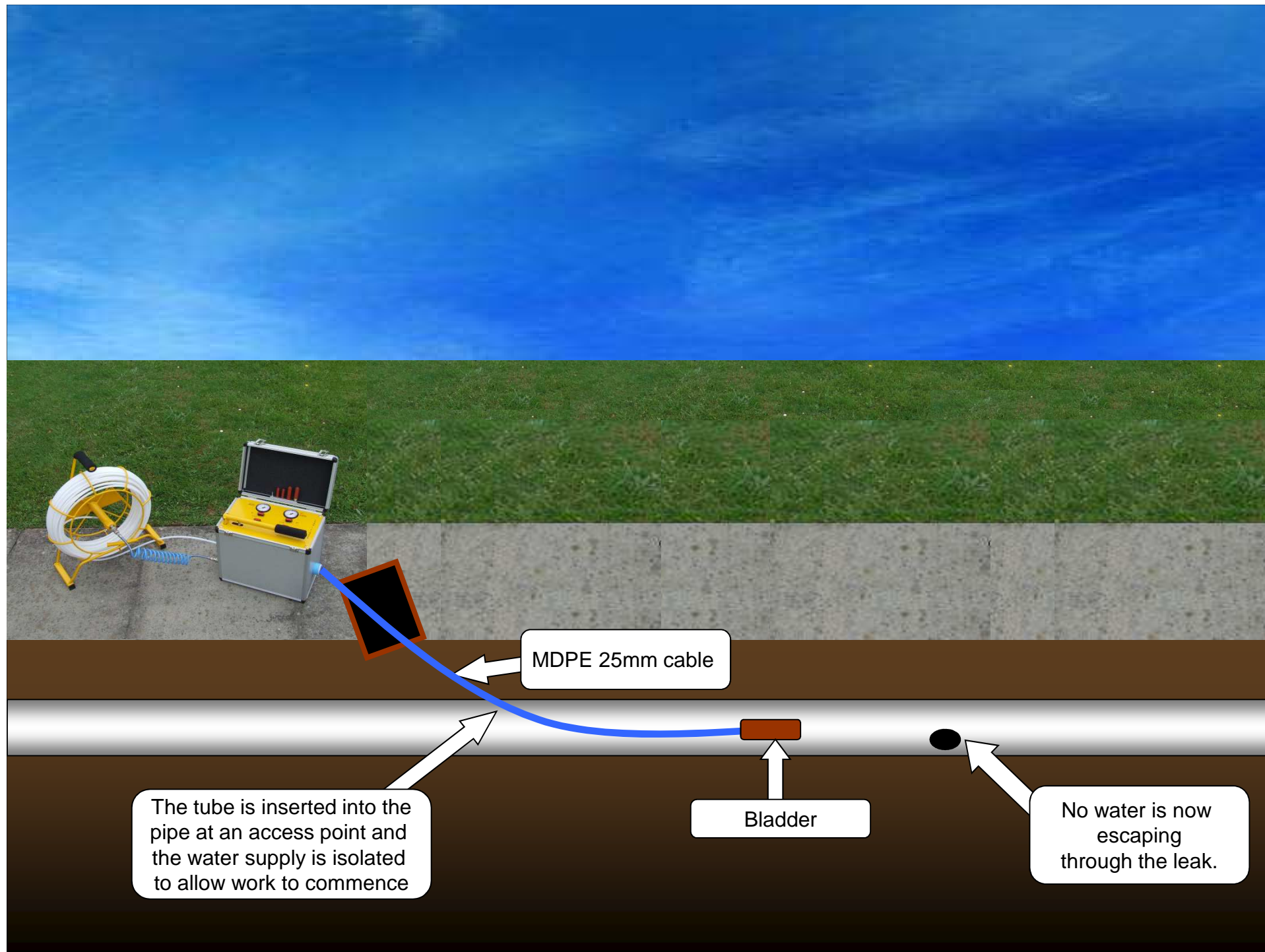
Insert the inflatable bladder and insertion pipe
into the open end of the 20mm MDPE pipe.

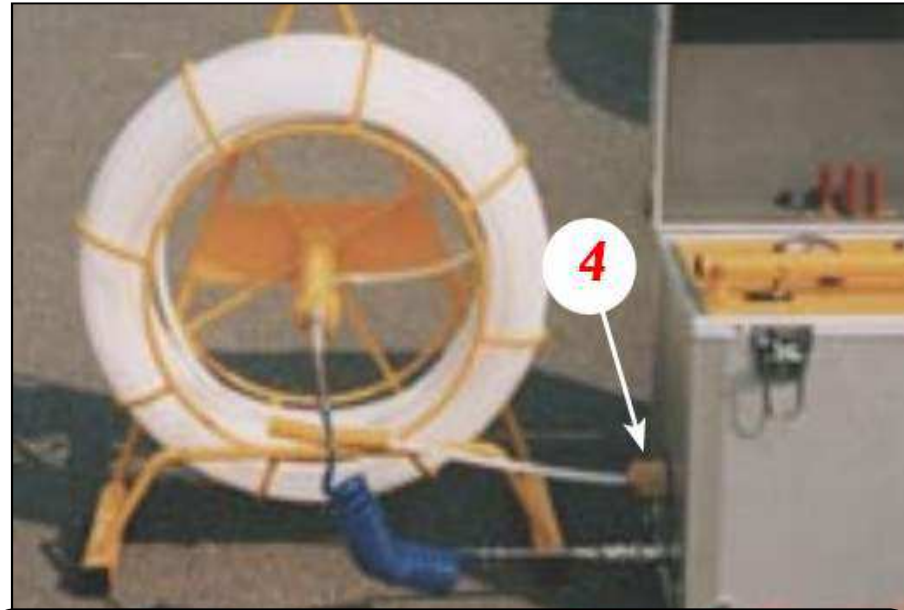


Make a connection between the service pipe and the 20mm MDPE pipe with a proprietary connector (eg. poly to poly or poly to iron etc)



Using the blue flexible connecting pipe, make a connection
Between the Leak-Finder and the insertion pipe reel
at point **5** and **6**.





Insert 20m of the insertion pipe into the service through the Leak-Finder. Once the pipe is inserted, seal the insertion pipe to Leak-Finder at gland 4, by rotating the knurled gland clockwise finger tight. The machine is now ready for the test procedure.

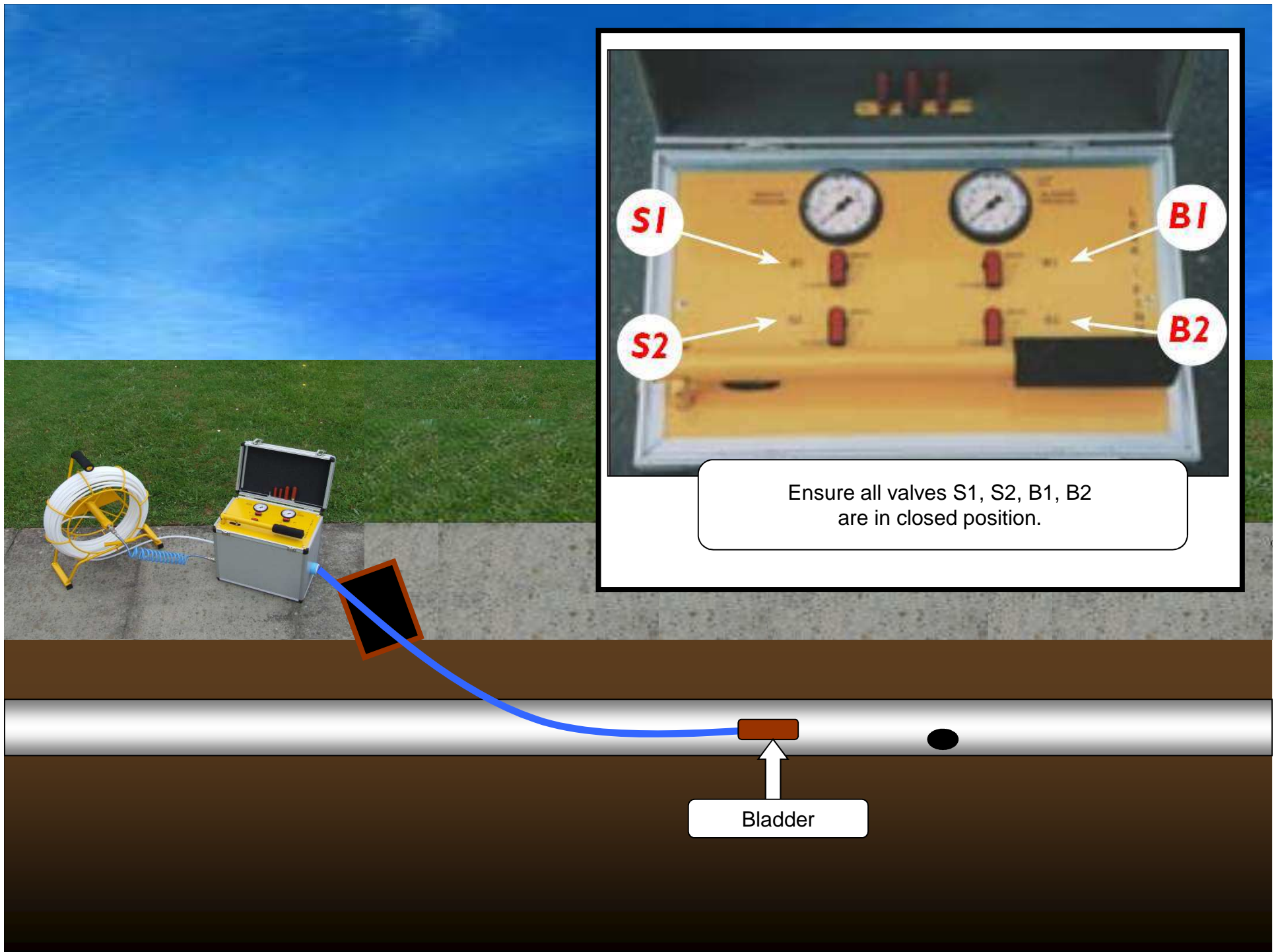


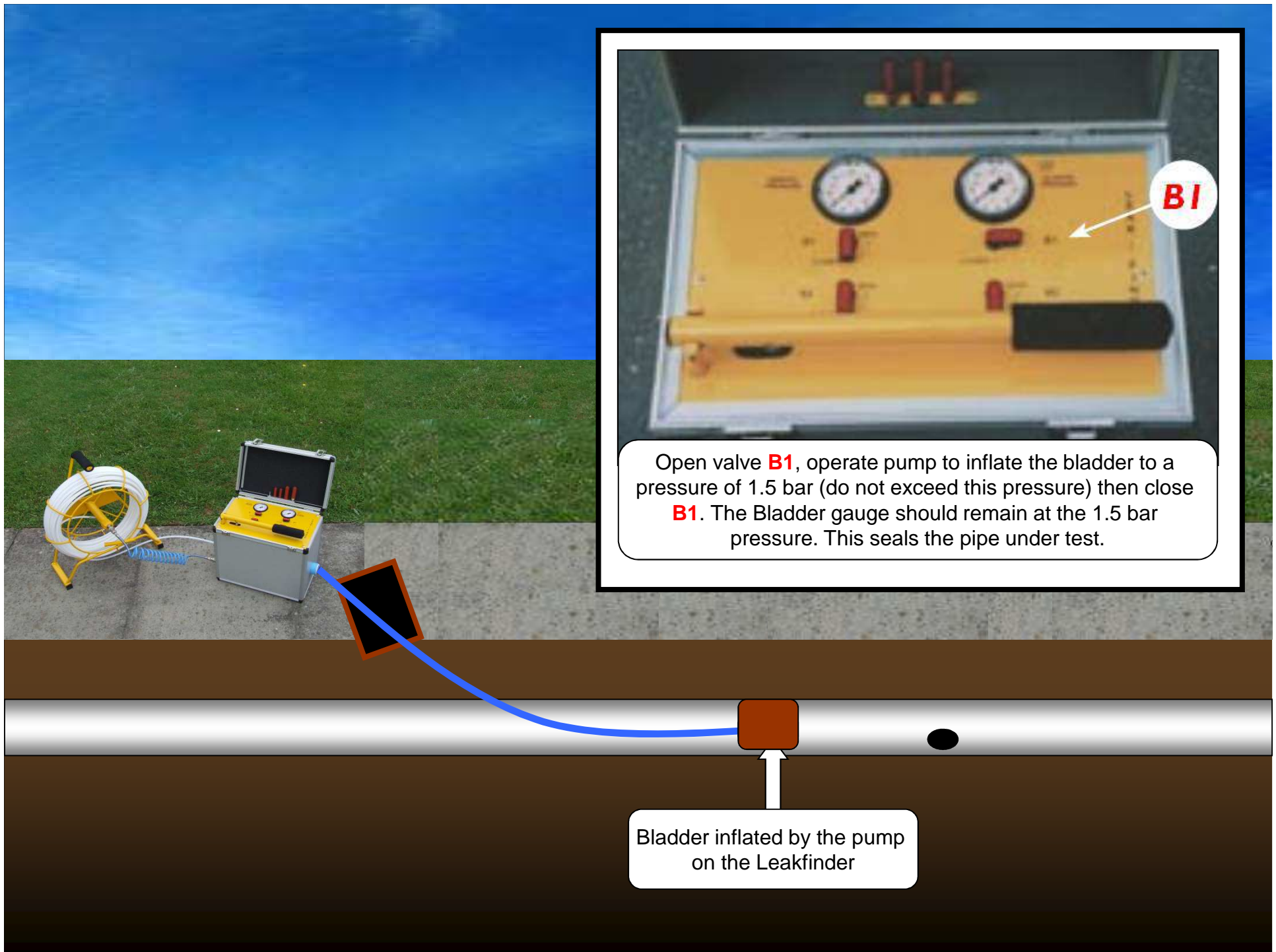
MDPE 25mm cable

The tube is inserted into the pipe at an access point and the water supply is isolated to allow work to commence

Bladder

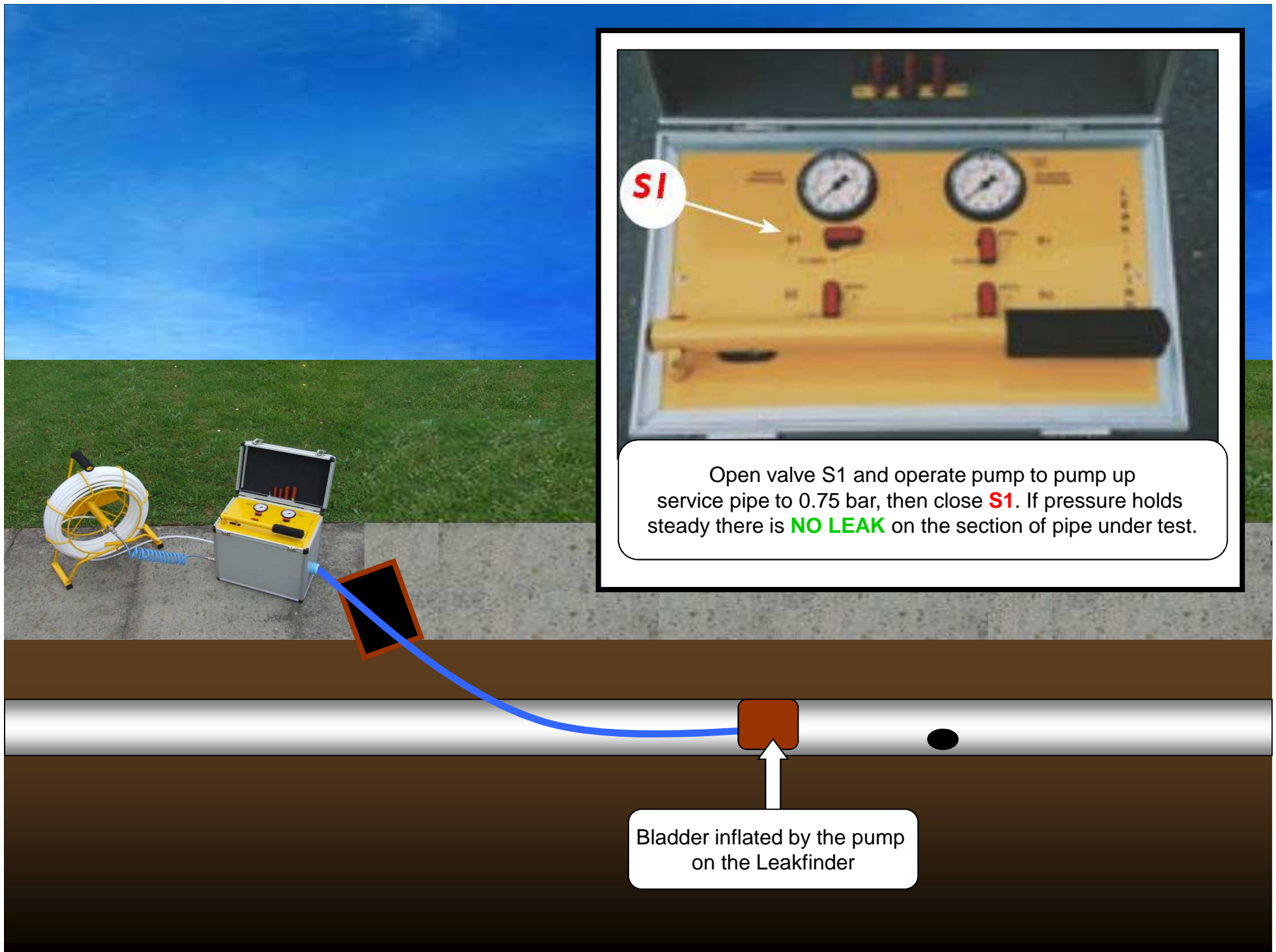
No water is now escaping through the leak.





Open valve **B1**, operate pump to inflate the bladder to a pressure of 1.5 bar (do not exceed this pressure) then close **B1**. The Bladder gauge should remain at the 1.5 bar pressure. This seals the pipe under test.

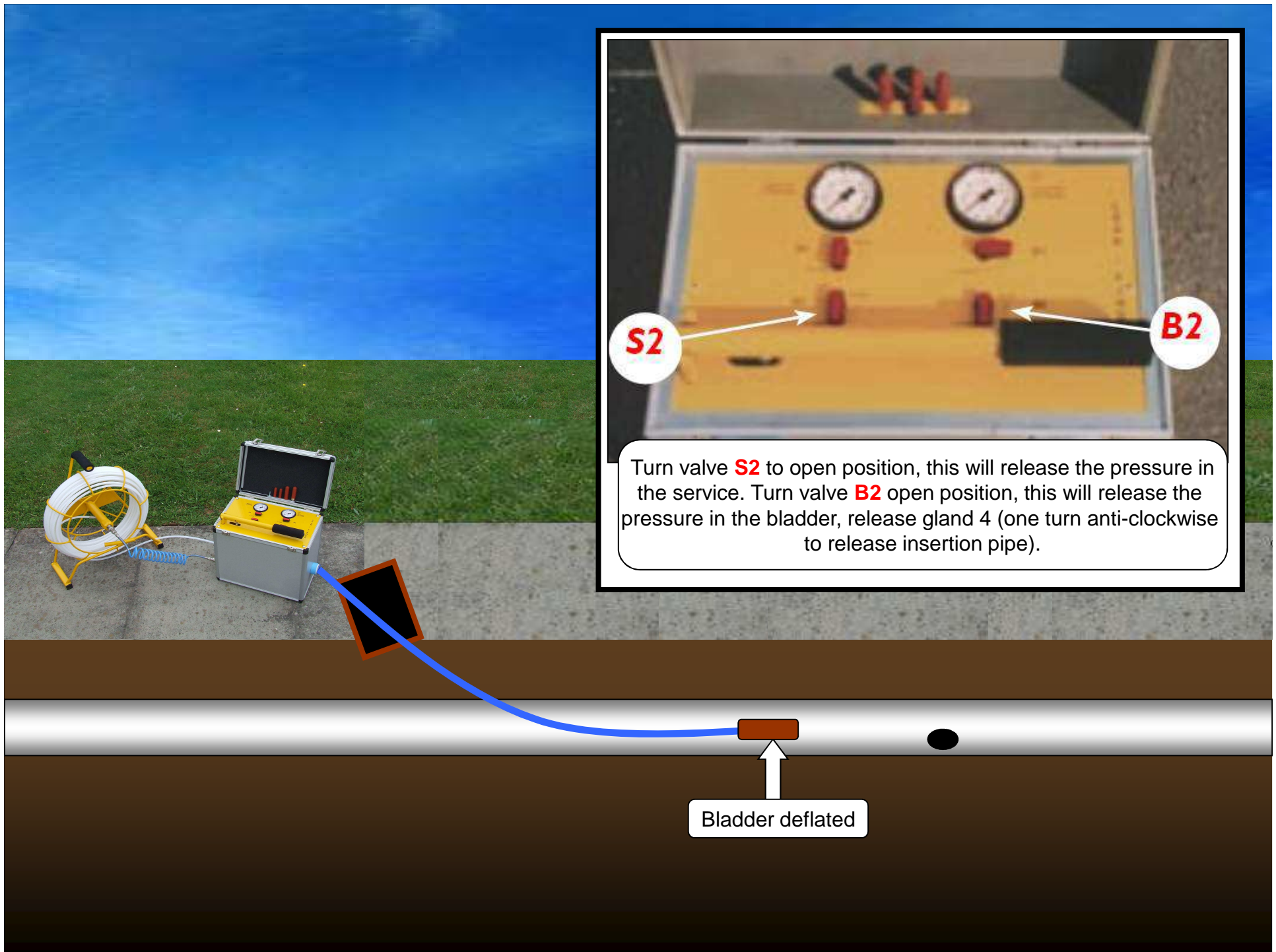
Bladder inflated by the pump
on the Leakfinder

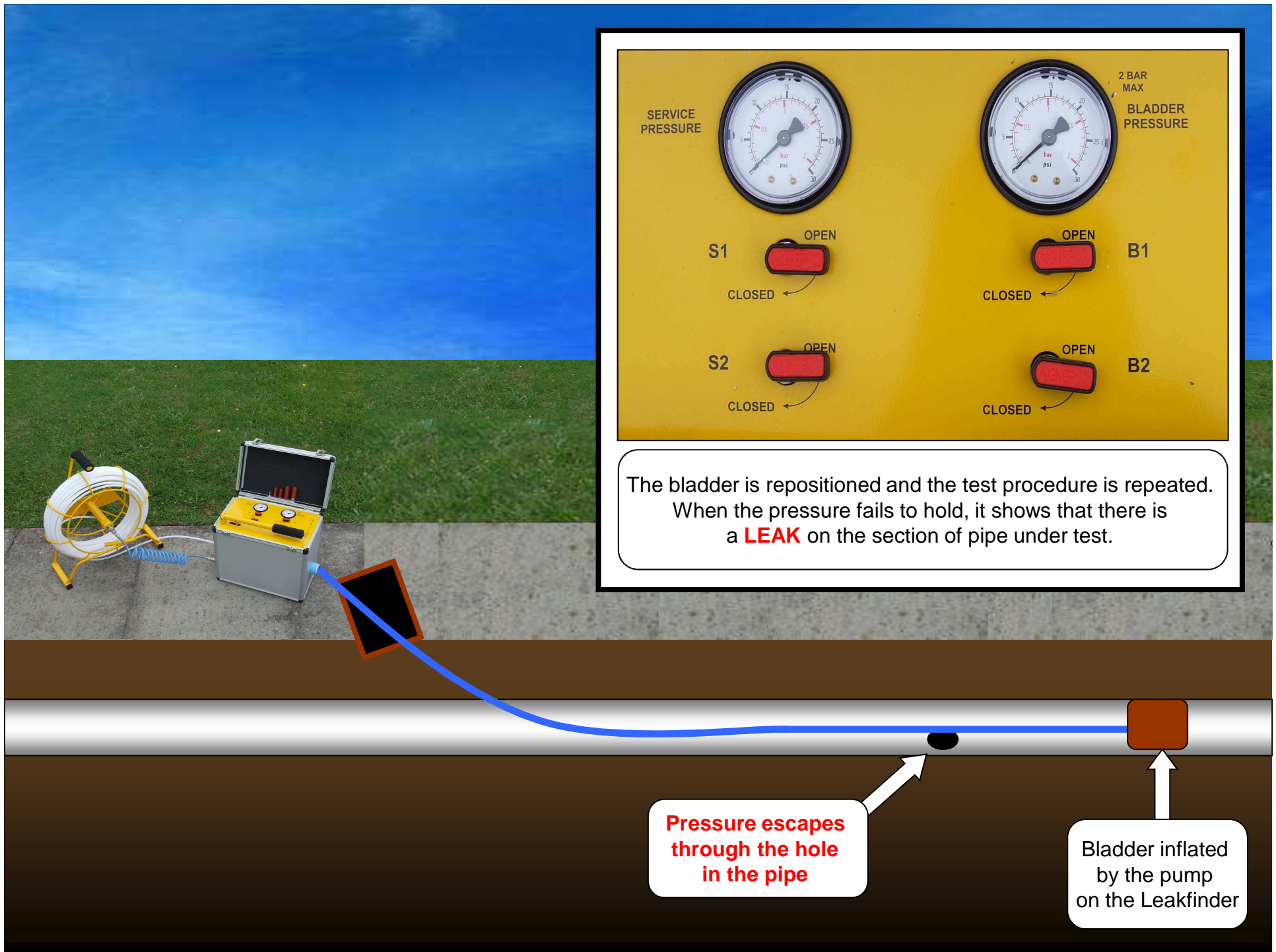


S1

Open valve S1 and operate pump to pump up service pipe to 0.75 bar, then close **S1**. If pressure holds steady there is **NO LEAK** on the section of pipe under test.

Bladder inflated by the pump
on the Leakfinder





Leak Finder – Summary



Halma Water Management

- Customer Side Leakage Pinpointing
- Simple but highly effective, reels available in 50m or 100m pipe lengths
- Effective on plastic pipe
- Low-cost
- Flexible hydro-static testing
- **NEW** 6mm reel now available for 15mm/20mm pipes

Great Customer Feedback!



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