

# Leak test protocol - Central heating installation:

Leak test must always be performed, and as a starting point be carried out with water as test medium. Roth Anti-frost fluid may be added the test water, if the installation remains unused in a freezing environment over a period after testing. If a pressure test is carried out with air or gas, the national regulations must be followed. Pressure test with air must always be followed by a pressure test carried out with water before the installation can be put into service.

Responsible installer:	Test performed by:	Date and time of test:
Address of construction site:		
System installed: <input type="checkbox"/> Roth MultiPex® <input type="checkbox"/> Roth Alu-LaserPlus® <input type="checkbox"/> Roth X-PERT S5® <input type="checkbox"/> Roth X-PERT S3	System application:	
External factors that may affect the test: Test medium temperature (MT): _____           Ambient temperature (AT): _____           Temperature difference (AT-MT): _____		

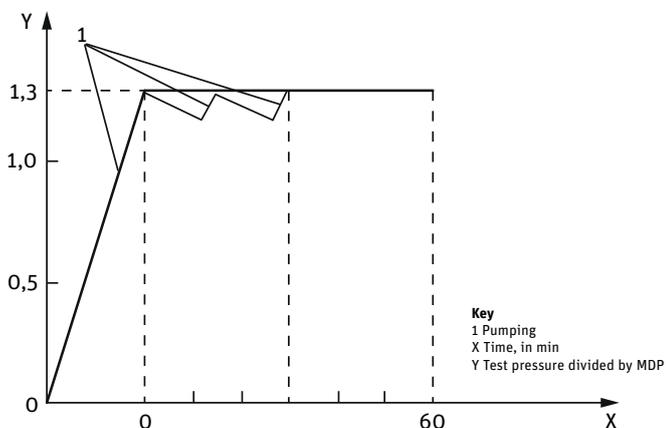
## Checklist run-through before testing (mark if OK):

- Check that the test pump has been inspected within the last 12 months. The accuracy of the test pump must be 0.2 bar or better.
- Check that the temperature difference between the water supplied, and the ambient temperature does not exceed 10°C - if this is the case, the test waters temperature is adjusted and after a 30-minute temperature adjustment period the actual pressure test can be started. Ambient temperature must not exceed 25°C during the test period.
- Make sure that the installation is slowly supplied with clean, non-particulate ( $\geq 0.15$  mm) water and is continuously vented, when applying the test water.
- Pay special attention to pressure sensitive elements in the installation which may not withstand 4 - 6 bars pressure, such as older pipe installations and safety valves. These may be excluded from the test by closing valves or using temporary plugs.
- If the installation is fitted with crimped fittings (PressCheck), these must be tested 10 minutes with 1,5 bars prior to the final leak test.

## Leak test procedure:

Installations are pressurized with water at 1,3 x maximum design pressure, however minimum 4 bars and maximum 6 bars – If pressure drop occurs within the first 30 minutes, fill up a maximum of 2 times, then the pressure must be stable.

See illustration below:



The installation is considered leak tight if:

- A) The pressure is equal to or greater than the chosen test pressure after at least one hour.
  - If pressure is dropping after point A, hold 5.5 bar using the pressure test pump and locate to correct any leak immediately!

Test result: <input type="checkbox"/> OK <input type="checkbox"/> NOT OK	Pressure test, start time:	Pressure test, end time:
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