

WEFATHERM PP-R PRESSURE TEST

After a Wefatherm PP-r system has been installed but before it is commissioned, it must be tested for tightness whereby this should be done while the system is still visible. The test pressure must be 1.5 times the operating pressure. Polypropylene expands under the influence of heat and pressure. For this reason it is necessary that the test medium (as a rule water) and the pipework material are at the same temperature. Attention should therefore be paid to the fact that the test medium has a temperature that is as constant as possible. The pressure test is divided into three parts, namely the initial, the main and the final test.

INITIAL TEST:

The highest possible operating pressure is increased by a factor of 1.5. This test pressure must be restored twice at intervals of in each case 10 minutes within a period of 30 minutes. After the pressure has been restored again a second time, the test pressure may not fall by more than 0.6 bar within the next 30 minutes. In addition no leakage may occur. Do not depressurize the system between these intervals.

MAIN TEST:

The main test commences immediately after the completion of the initial test and lasts two hours. During this period the pressure may not fall by more than 0.2 bar relative to the pressure at the end of the initial test. Do not reinstate / adjust the pressure in the system at all during this test.

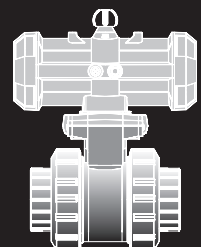
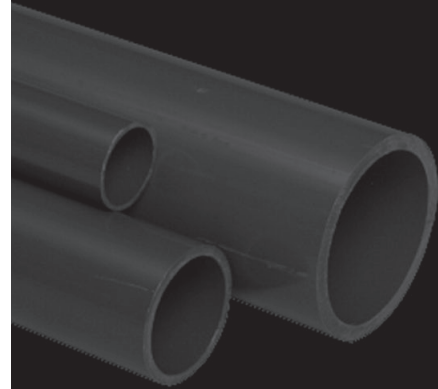
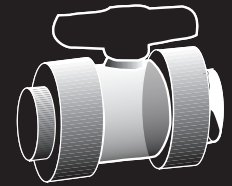
FINAL TEST:

Test pressures of 10 bar and 1 bar are applied alternately at intervals of at least 5 minutes. After each application of pressure, the pipe network is to be depressurized. Leakage may not occur at any point in the network being tested.

The pressure measuring device used must permit accurate readings to the nearest 0.1 bar. Where possible the pressure is to be determined at the lowest point of the network.

The test as carried out is to be documented in a memorandum which must be signed by the client and contractor with statement of the place and date of signing.

(See P. 77 – Wefatherm Technical manual
for a test memorandum form).



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WEFATHERM Pipework Installation Test Memorandum

Firm carrying out the installation: _____

Place: _____ Building: _____

Pipe lengths Ø 16mm: _____ m Pipe lengths Ø 50mm: _____ m

Pipe lengths Ø 20mm: _____ m Pipe lengths Ø 63mm: _____ m

Pipe lengths Ø 25mm: _____ m Pipe lengths Ø 75mm: _____ m

Pipe lengths Ø 32mm: _____ m Pipe lengths Ø 90mm: _____ m

Pipe lengths Ø 40mm: _____ m Pipe lengths Ø 110mm: _____ m

Pipe lengths Ø 125mm: _____ m

Highest removal point: _____ m above pressure gauge

Initial Test:

Test pressure _____ bar

Pressure following 1st restoration of test _____ bar

Pressure following 2nd restoration of test _____ bar

Pressure drop after 30 minutes _____ bar

Result of the initial test: _____

Main Test:

Operating pressure (result of the initial test): _____ bar

Pressure after 1 hour _____ bar (start of test)

Pressure after 2 hours _____ bar

Pressure drop _____ bar (max. 0.2 bar)

Result of the main test: _____

Start of test: _____ End: _____ Duration of test: _____ h

Client: _____

Contractor: _____

Place: _____

Date: _____

Stamp/signature of client:

Stamp/signature of contractor:
