

function

The **SCITEQ leak tightness tester** is designed and constructed according to EN 1277. It is used to determine the leak tightness of elastomeric sealing ring type joints for buried thermoplastics non-pressure piping systems. The SCITEQ testers are suitable for smooth wall pipes or corrugated pipes.

highlights

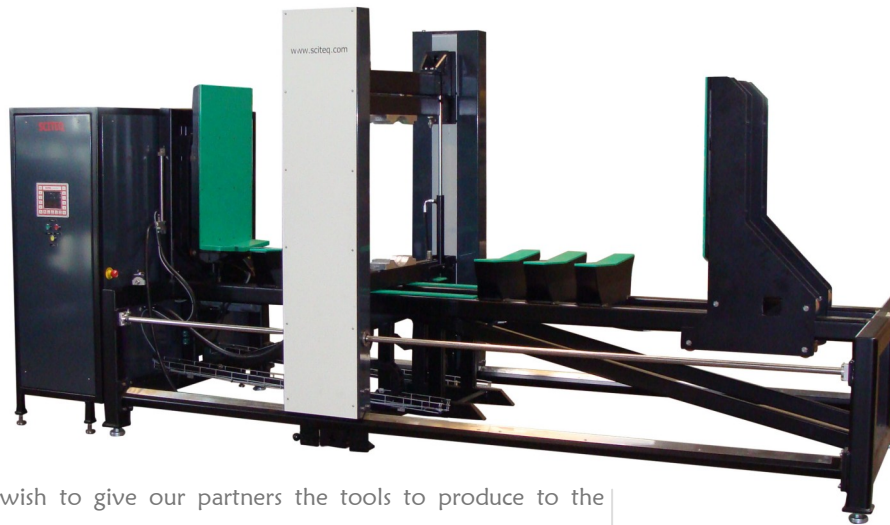
- robust construction
- high accuracy
- suitable for up to Ø1600 mm pipes
- even larger pipe dimensions on request
- data logging
- floating pipe during testing

version 03/2013

features

The testing principle of the leak tightness tester comprises exposing the test pipe to a vacuum (internal negative air pressure) for a specific period, filling the test pipe with water and subsequently exposing the pipe to an internal hydrostatic pressure for a specific period. During testing, the joint will be subjected to deflection. Each stage of the test is monitored in order to establish a possible joint leakage.

The control unit provides an instant and useful overview of parameters and ongoing test status. Data can easily be exported to SCITEQ's own PC SCITEQ software for further processing and report generation.



We wish to give our partners the tools to produce to the highest standard, while helping them to produce as cost-effectively as possible with Q.C. tools throughout the factory.

construction

The rigid and robust construction of the **SCITEQ leak tightness tester** ensures reliable test results of up to Ø1600 mm plastic pipes.

The machine is constructed in such a manner that an end closure seals are easily mounted into correct testing position. This is very useful when testing large pipe diameters for instance Ø800 mm. The lightweight end closures are supported during deflection. Further, a separate control unit supplies vacuum and pressure. The control unit has a user-friendly interface and colour display.

An important point to stress is that the test pipe is "floating" during testing, thus only supported as specified in the standard. Two sets of floating deflection beams are fitted to the test pipe. This allows optimum and realistic deflection conditions.

The two-point angular measuring system indicates the angular deflection applied.

associated | equipment

▲ | essential equipment

end
closures

hoses

pipe diameters: Ø100mm - Ø1600mm

Three models available:

- Ø100-800mm pipe tester
- Ø100-1200mm pipe tester
- Ø100-1600mm pipe tester

vacuum: -0,3 bar +/- 5%

internal pressure: max. 1 bar

deflection: 2-2½ degrees

deflection scaling: automatic

pressure regulation: automatic

pressure transducer: -1/+1,5 bar

force: min. 20 kN (automatic deflection device)

data logging: yes

visual alarm: yes

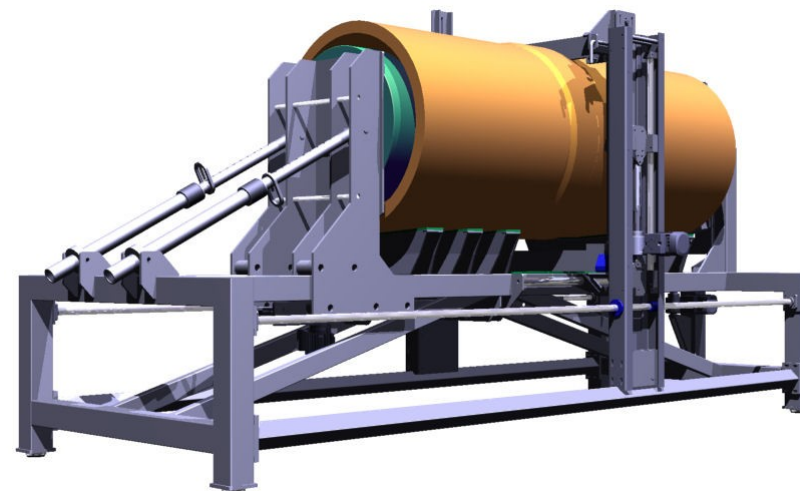
power supply: 230-380V, 50-60 Hz

water supply: normal tap supply

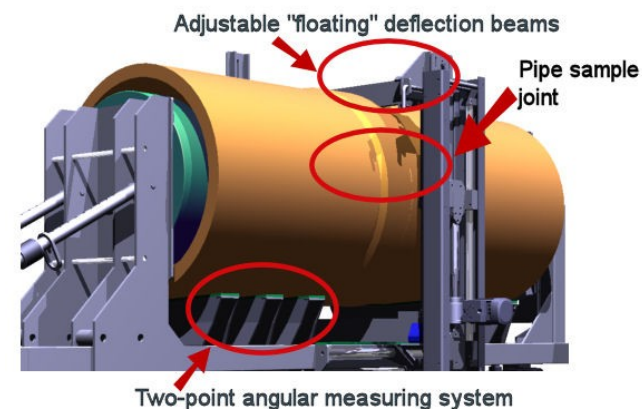
dimensions: 4400x1600x2120mm (LxWxH) (model Ø100-800mm)
Dependant on model

weight: 1600kg (model Ø100-800mm). Dependant on model

accessories: end closure seals for leak tightness tester

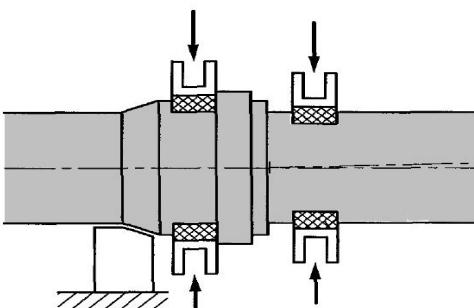


SCITEQ leak tightness tester



two sets of floating deflection beams to be fitted on test pipe.

Drawing from standard EN 1277



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