Competence creates Confidence.

Model no. 1771

COMBI TEST STAND

ISO 13254
ISO 13259

The combi test stand is used to perform leak tests on pipe connections.

Extreme loads

ISO 13254 is a standard that specifies a test method for the water tightness of thermoplastic products for non-pressurised applications. The standard describes how a test sample, consisting of the product to be tested or a pipe and/or fitting connection, is subjected to a specific internal pressure in order to check the tightness of the connection or product.

ISO 13259 is a standard that specifies test methods for the tightness of elastomeric sealing ring joints in underground, unpressurised piping systems made of thermoplastics. It describes various test pressures and conditions for checking the tightness of such connections.

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- The test stand consists of a test chamber with sliding doors. The sliding doors serve to protect against water jets in the event of a leak in the specimen.
- The supply unit is located outside the test chamber. A crossbeam is located at the top of the chamber for mounting and disassembling the specimen. This is used to attach lifting straps for mounting and disassembling the specimen. The specimen is clamped between two bearings.
- In the area of the pipe connection, the specimen is supported on a longitudinally adjustable support and secured with a strap. The bearing on one side is mounted on a deflection carriage.
- For testing purposes, the deflection carriage is deflected to a value in accordance with the test standard.

Standard features

- Tests on plastic corrugated pipes up to a maximum diameter of 1200 mm
- Electrical controller
- Pressure regulator for leak testing
- Pneumatic maintenance unit
- Vacuum pump
- Operation at the supply unit outside the test chamber
- Leak test with water at slow pressure increase
- External overpressure, caused by vacuum in the specimen

Options

- Squeezing device for deforming the pipes
- Pneumatic sealing ring
- Operating air pressure for pneumatic seal 6.0 to 10.0 bar

Version COMBI TEST STAND		V1771-0001
Tests on man-holes		-
Test conditions		
Height of pipe axis	mm	1,350
Deflection for bending at an angle	°	1 to 2 (corresponding to 25 mm to 43 mm)
Test pressure		
Pressure regulation		release
Pressure transducer	bar	-1.0 to +0.6
Quality of the pressure transducer		Class 0.05
Absolute measuring accuracy	%	0.05 from the final value of the pressure transducer
Water control	bar	0.5 + 0.05
Air control	bar	-0.3 ± 0.015
Pressure adjustment		by programming the pressure regulator
Pressure supply	bar	Domestic water pipe 3.0 to 6.0