

- Model no. 1663/1669

## RING STIFFNESS TESTERS

With the model 1663 and 1669 testers, the ring stiffness, ring flexibility and creep behaviour of thermoplastic pipes can be determined.

ISO 9967  
ISO 9969  
ISO 13968  
DIN 16961  
ASTM D 2412

Ring stiffness Ring  
flexibility Creep  
behaviour



**Ensuring pipe integrity and performance**

The devices have large compression plates which can be used to carry out the test on pipes from the respective diameter range and with a length of up to one meter.

A PC-based control software system provides clear visualisation of the device and enables convenient operation. In order to carry out the tests, the device provides various operating modes which can be used to exert either a constant force on the sample or to be able to move the compression plates at a constant speed. During this, the supplied or resulting forces and distances are recorded and the relevant force-distance diagrams created.

Deformation of the pipe at the external or internal diameters can be measured and recorded using a measuring trolley.

The interface to IPTDataLogging® 6 enables the long-term storage of the results and enables standard-compliant test reports to be created.



Model no. 1663



Model no. 1669

### Standard features

- Fully automatic test procedure
- Convenient operation and clear visualisation via user interface (PC)
- Testers specially developed for testing the ring stiffness, ring flexibility and creep behaviour
- Continuous measurement and recording of the deformation occurring to the external and internal diameters of the pipe
- Continuous force measurement and recording
- CE conformity

### Options

- Data input, evaluation and documenting of testing data via IPTDataLogging software (PC)

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### Design

		V1663-0005	V1669-0003
Max. test force	kN	25	60
Max. pipe diameter (outer)	mm	800	1,600
Adjustable preload up to max. force		Up to max. force	
Accuracy	%	± 1 of measurement between 0.40 and 25 kN	± 1 of measurement between 0.40 and 60 kN
Measuring accuracy of deformation of the internal diameter	%	1% of change or 0.1 mm (max. value is valid)	
Measuring range of distance measurement	mm	Min. 70 Max. 1,000	Min. 70 Max. 1,000
Compression plate travel	mm	930	1,630
Extensometer		Integrated	Mobile
Compatible with IPTDataLogging®		From version 5.x	
Permissible ambient temperature	°C	+5 to +30	
Permissible relative humidity	%	Max. 70 non-condensing	
Device width x depth x height	mm	2,550 x 1,155 x 1,950	2,500 x 1,710 x 2,635
Width of extensometer	mm	3,350 (extended)	1,820
Depth of extensometer	mm	-	700
Height of extensometer	mm	-	2,540
Weight (incl. extensometer)	t	Approx. 1.75	Approx. 3.0
Voltage data	kg	230/400 V, 50/60 Hz special voltages on request	