

Relaxation tester Type RT10

The relaxation-tester RT10 is a completely new developed tool, which is perfectly fitted to demonstrate the relaxation behavior of gaskets very rapidly, determine tightening factors and also the scatter of tightening methods, support the quality management and train engineers as well as fitters. Because of its robustness, fast utilisability and low weight the system is also ideal for mobile usage – for presentation purposes at your customer's location for example.

For usage the tester is easily fixed in a common bench vise and connected to a PC with one USB-Plug only. Within the elastic limits of the bolt the deformation is measured with the integrated transducer. This value is calculated into bolt force and gasket surface pressure. The measurement values are clearly arranged and presented within the provided software. The values can also be saved in a file if desired.



Included in delivery

Relaxation tester M20, washer, nut

Extension sleeve with raised face

Transducer and USB AD-Converter

Software on USB Flash Drive

Carrying case

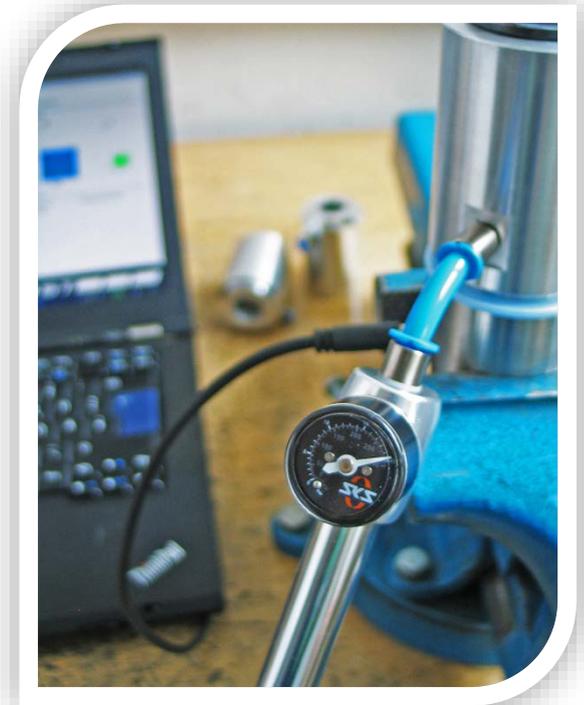
Documentation

Relaxationstester with Leakage-function

By the use of the optional leakage function there is an easy way to determine the possible leakage of a gasket. With a simple instrument, the system can be pressurized up to 20 bar. By monitoring the analogue gauge, the pressure drop can be seen. Because of the minimal inner volume, the system uncovers least leakages.

Two different flanges for leakage measurement (with/without intentional damage), a hand pump and a custom-fit carrying case are included by default for this option. All tests, which can be done with the basic relaxation tester, can also be done with the leakage model.

Flanges having an intentional damaged sealing surface allow demonstrating the sealing performance and adaptability of a gasket material in a clear and impressive way.



Included in delivery

Relaxation tester M20, washer, nut

Two extension sleeves with raised face for leakage measurement. One of them with defined damage.

Hand pump up to 20 bar

Knurled nut M20

Transducer and USB AD-Converter

Software on USB Flash Drive

Carrying case

Documentation

Characteristics

Easy handling, little weight and robust measurement electronics

Stationary and mobile operation

Gasket comparison, batch verification, determination of lubrication- and tightening quality

Modern and advanced software with intuitive user interface

Display and log of bolt force and gasket surface pressure

Clearly arranged and comparative display of relaxation tests

Determination of tightening factors (scatter of tightening methods)

Unit switching support, metric and imperial

Extendable language support



Specifications

Operating temperature	°C	-10 ... + 65
Voltage supply	VDC	5, from USB
Current consumption	mA	< 500
Dimensions with carrying case	mm	291 x 252 x 80
Weight tester	kg	1.0
Weight including carrying case	kg	1.8 / 2.4 ¹
Calibration	-	5-point
Extension sleeve, dimension of raised face	mm	di = 21mm, do = 40mm
Compatible gaskets	-	DIN EN 1514-1, IBC, DN15 PN40
	mm	di = 22mm, do = 51mm
Bolt force maximum	kN	45
Surface pressure maximum (with gasket according to EN 1514-1 IBC, DN15)	MPa	50
Maximum pressure	Bar	20 ¹
Units	-	kN, MPa, mm lb, PSI, in
Languages	-	DE, EN, FR
System prerequisites	-	Windows 7, 1 free USB port

¹) Tester with leakage-function