

### Short description

The CETA leak detection system is conceived as a semi-automatic test stand. The modular construction and the use of standardised components allow the offer of a price attractive system. The integration of different types of test devices (leak tester, flow tester, mass flow tester) enables a variety of industrial solutions for the most different applications and test parts. The fixture and adaption of the test part as well as optional add-ons are customerspecific. During the project planning phase the technical feasibility of the leak test is ensured.



### Sequence controller

PLC controlled semi-automatic test system, with manual insertion of the test part, automatic test procedure, evaluation of the measurement result (pass / fail)

### Standard components

- Optimised concept regarding the pneumatical design and the technical application
- Mobile Rittal control cabinet (with drawer) including integrated maintenance unit, valve cluster and control components, safety devices, 2-hand-start
- Table frame with safety devices
- Siemens PLC (basic model) with pass / fail evaluation, malfunction indicator, acknowledge reset, emergency stop switch
- Use of components from reputed manufacturers for pneumatic and sensor technology, guiding systems and mechanical profiles
- Prepared for the integration of a CETA test device

### Components specific to the customer

Test part fixture (CAD data in Step format required), adaption, number of clamping cylinders, modification of the standard layout and additional functions

### Power supply

230 V AC, 5 A (standard configuration)

### Compressed air supply

6 - 10 bar and 1 bar above test pressure (ISO 8573-1:2010 [1:4:1])

### Modifications and options

#### PLC

Siemens S7/226 control system (24 inputs / 16 outputs)  
Extension of the PLC with additional modules  
Display for visualization

#### Safety systems

Safety door with end position control  
Light grid

### Optional extensions (examples)

PC connection  
Signature / marking of test part  
Signal lamp  
Double receptacle for test parts with sliding table

### Weight

Depending on the customised modifications

### Accessories (optional)

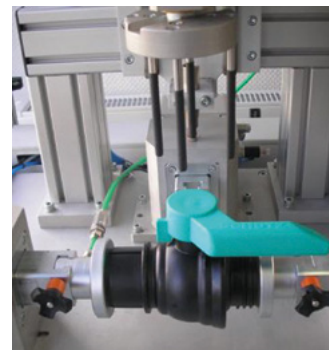
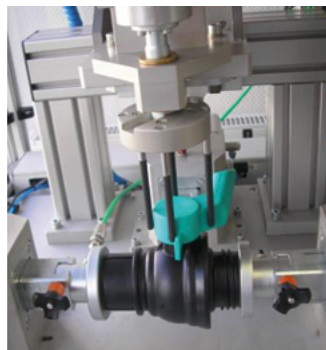
Standard leak, master jet, leak tight 3/2-way valve, more in the CETA accessories catalogue

### Scope of delivery

Transport packing, engineering drawing, list with spare and wear parts, CE marking, EU conformity declaration, user manual, calibration certificate for test device

**Application example 1**

Mobile CETA 3-channel test system for the autonomous leak test of pneumatical systems with customer specific adjustments, (20 bar test pressure, pneumatical measuring line and hose reel, industrial PC controlled, network compatible, barcode scanner, label printing for documentation of the measuring results)

**Application example 2**

CETA leak test system with fixture for the leak test of ball valves

- Test of the internal and external tightness in different positions of the ball valve
- Switching by mechanical actuator
- Use of the test mode „sealed component“ (volume determination and test of gross leaks)
- Use of the test mode „pressure decay test“ (test of fine leaks)