leak test equipment
for water valves

Water valves with diameters of 20-100mm can be leak tested both internally and externally using the 'differential pressure with water' technique.

The features of the machine include easily removable tools for the various diameters of valves and torque control for closing the valve and rotation control at opening and closing of the valve. The control panel is accessible, with a keyboard for the setting of parameters such as programs, times, alarm points and pressures. The display indicates the test process, pressures and a test result in Pascals. A separate pump stand allows access for maintenance the measurement and pneumatic equipment is contained within a separate enclosure.

Technical Data

Test piece:	Water valve, diameter 20-100mm
External Pressure:	40 bar
Internal Pressure:	25 bar
Leak Rate:	2 drops water per sec
Cycle time:	approx 70 sec (without handling)
Connections:	Power Supply 240/400 V 50Hz
	Air approx 6 bar
	Water and drain BSP/NPT threads

There is a pressure tank and return water tank with requisite filters and valves included and a Sugevac vacuum pump for vacuum pumping of the valve before filling with water, which provides a high filling rate and eliminates the fill time before pressure stabilisation. The maximum external test pressure is 40 bar and the maximum internal test pressure is 25 bar. A drip tray is placed under the fixture to collect waste water and at the lowest point, there is a pump for the evacuation of waste water.

Safety

Upon activation of the start button, the valve is automatically loaded and the protective guard descends and automatically locks. The guard may be opened after the test pressure has been reached to allow for visual leak location. The machine is equipped with clear protective guards and safety switches on three sides to allow for valve maintenance and filter exchange.

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