

unigrind designs, manufactures and delivers test units for pressure and leak testing of any type of:

gate, globe, plug, ball, check, butterfly and safety relief valves according to the international standards.

The selection of the test unit and clamping system is made according to:

- Test types
- Valve sizes
- Valve types
- Test pressure according to valve size

Test types:

- Body Test
- Leakage test of spindle glands
- Leak test of valve seat
- Set pressure of safety relief valves

Valve size:

1/4"–40" (DN 10–1000 mm)

Test pressures:

- Water: 0–690 bar/0–10000 psi
- Compressed Air: 0–400 bar/ 0–5800 psi
- Nitrogen: 0–680 bar/0–9860 psi
- Other pressure ranges on request
- Vacuum 0 to -0,8 bar/0 to -11,6 psi

Test Media:

- Water
- Compressed air
- Nitrogen

Design:

- Stationary test units for work shop
- Portable test units for on-site use or installation in containers etc.
- Data Acquisition System for valve data, test results and test report
- Hydraulic clamping system with manual clamping force control according to test pressure
- Hydraulic clamping system with automatic proportional clamping force control
- Vertical hydraulic quick clamping system – the valves are clamped only by the flange
- Vertical hydraulic quick clamping system – the valves are clamped only by the valve flange or between the test table plates
- Automatic centring system for clamping brackets
- Horizontal clamping system
- Horizontal and tilting clamping system for testing in horizontal and vertical position
- Portable power packs for testing pipes and pressure vessel etc.

Optional features:

- Data Acquisition System for valve data, test results and test report
- Set pressure detection system for Safety Relief valves
- Analogue and digital indication of test pressures
- Hydraulic clamping system with automatic clamping force control
- Electric or pneumatic driven high pressure compressor and storage system
- Adapters for male and female thread connections
- Quick clamp tools for clamping and sealing of flanges
- Flow meters for leak detection
- 0–30 psi and 0–50 psi air actuator and positioner circuit, 0–26 V DC Power supply
- 4–20 mA controller, Data Acquisition system
- Digital bubble counter



TS 50-S