

FEATURES

- **SINGLE RAM PISTON:** Single ram design assures even clamping on the valve flange. O-ring grooves on the stainless steel plate allows for quick seal without the need for gaskets.
- **SAFETY INTERLOCK:** Hydraulic Safety Interlock feature prevents accidental release of clamping pressure unless the test pressure is vented.
- **INCREASE TESTING EFFICIENCY:** Both up-stream and down-stream seat tests, as well as body shell tests can be performed without having to remove the valve in place. An air flush connection on the top plate allows the test media to be flushed back to the storage tank.



LVR Series shown with a 12" flanged turbine meter being tested.

Barbee's re-designed LVR Series employs an air-actuated sliding table with a four actuator mounted on the control panel. Two air cylinders attached to the sliding table enhance the alignment of the valves being tested and greatly improve test productivity while providing the operator with ease of testing.

All the valves and pumps are push-button controlled with pilot lights that indicate the actuation of the component. On some models, a panel mounted test selector switch can be added for several preset test pressures for ease of adjustment and increasing testing efficiency.

An air driven double diaphragm pump with a 14 gallon per minute flow rate pre-fills the valves quickly for testing. Water from the stainless steel reservoir (directly below the fixture) is returned back to the tank after the test through cartridge filters.

Air-driven piston pump for both hydrostatic and hydraulic clamping pressures is used. Both pumps have panel mounted pressure regulators and discharge gauges.

Both Upstream and Downstream Seat Testing can be performed without unclamping and removing the valve from the test fixture. Shell testing is also performed with the valve clamped in place.

Low Pressure air tests can also be performed with a 0-100 PSI panel mounted regulator and a bubble jar. Higher air or Nitrogen test pressures can be performed with the addition of a Gas Booster Pump.

A panel-mounted digital test timer with audio-visual alarms can also be installed for timing the various tests. Lexan shields throughout the test fixture, automatic shield locks, and automatic pressure release valves are all optional items which can easily be installed.

Series LVR Specifications

TEST COMPONENTS:

Flanged, wafer, and threaded valves from 1/2" NPT to 12" 150# & 300# Class Flanged Valves.

TEST PRESSURE:

0-3,000 PSI water at ambient temperature, which can be regulated to as low as 250 PSI. Shop air from 0-100 psi for seat tests.

CLAMPING FIXTURE:

100-ton hydraulic cylinder is the standard, with optional 50-ton, and 150 ton models. Cylinder strokes are varied depending on the type and sizes of valves to be tested. Standard 36" wide fixture opening, 24" wide test plate opening.

Hydraulic cylinder is operated by dual pump assembly, low pressure, 5 GPM pump, 0-500 PSI and a High Pressure air-driven piston pump, 125:1 ratio, adjustable from 500-10,000 psi, complete with 5 gallon hydraulic reservoir, and selector valve, 4" dial panel mounted clamping pressure gauge.

HYDROSTATIC SYSTEM:

PUMPS: Air-driven piston pump, 30:1 ratio adjustable from 250-3,000 PSI, other pump ratios and pressures available. Air-driven double diaphragm pump, 14 GPM for filling the valves, with filter cartridge.

GAUGES: 6" dial panel-mounted gauges, with chrome bezel, 0.5% accuracy full scale with Pressure Limiting Valves, glycerin filled, mirror dials, cutout valves and calibration ports. Gauge ranges are: 0-600, 0-1,500, 0-3,000 PSI.

COMPONENTS: All high pressure valves, tubing and fittings stainless steel. All gauges, valves and regulators are panel mounted.

SAFETY FEATURES:

A Hydraulic Safety Interlock valve is installed in the circuit to prevent the accidental release of clamping pressure unless the test pressure is vented.

OPTIONAL: Data Acquisition System, Windows® based, with PC, Monitor, printer, software and hardware.

WARRANTY:

1 Year Full Warranty. (Refer to Barbee Terms and Conditions of Sale.) Set up and training @ customer's facility included.

VALVE TEST CAPABILITY				
ANSI CLASS	150	300	600	900
1/2"-2"	YES	YES	YES	YES
3"-5"	YES	YES	YES	YES
6"-8"	YES	YES	YES	NO
10"-12"	YES	YES	NO	NO



DIMENSIONS: 96" L x 36" W x 72" H.

SHIPPING WT: APPROX. 2500 LBS.