

FEATURES

- **DUAL FUNCTION TEST STAND:** Test stand has the ability to perform seat tests with air or water with standard valves, as well as to check the set pressure of relief valves.
- **SAFETY INTERLOCK:** Hydraulic Safety Interlock feature prevents accidental release of clamping pressure unless the test pressure is vented.
- **DATA ACQUISITION CONSOLE:** Complete with software and hardware, Windows based system, PC with CDwriter, 17" monitor, keyboard, and printer. Data Acquisition System has a standard test profile for control valves, and another profile for relief valves.



Model SRV-3000 shown with the optional Data Acquisition Console, for both relief and standard valves.

Barbee's SRV Series Tester is a modified version of the standard S Series, for use with testing relief valves.

The clamping fixture has a 15" diameter stainless steel plate with o-ring grooves. The four upright arms are spaced far apart to enable up to a 12" 150# Class flanged valve to be tested. A 90-ton hydraulic cylinder with adjustable clamping pressure is used to seal on the inlet flange of relief valves or standard shut off valves. For threaded valves from 1/2" to 3" NPT, threaded adapters with quick disconnects are provided with an adapter seal plate.

The Model SRV 3000 is capable of hydrostatic test pressures up to 3,000 PSI and pneumatic test pressures of 3,000 PSI. An air-driven piston pump with a 30:1 ratio is used for water tests, and a dual ratio gas booster, with a 10:1 and a 50:1 ratio is used to boost 100 PSI shop air to 5000 PSI.

Optional 10-gallon high pressure gas bottles is available to store the gas booster discharge pressure for use with the test stand. A penl-mounted high pressure air regulator is then used for the testing. Both water and air tests are accomplished from the same test port. 6" dial gauges with quick disconnects, all stainless steel with red-hand maximum pointers are installed with the following ranges: 0-300, 0-600, 0-1500, 0-3000 and 0-5000 PSI. All gauges have a 0.5% accuracy and have calibration certificates.

A 15-gallon water reservoir can also be included with a suction filter, vent and fill cap, along with an air-operated double diaphragm pump with a 14 GPM flow rate to quickly pre-fill the valves before testing.

Data Acquisition System includes software and hardware, PC Pentium IV, 40 gig hard drive, CD writer, 17" monitor, keyboard, mouse and color printer, with cables and all CD's for software.

Model SRV-3000 Specifications

TEST COMPONENTS:

Flanged, and threaded valves from 1/2" to 3" NPT, 3" 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, & 0-3000 PSI high pressure air with gas booster.

CLAMPING FIXTURE:

90-ton hydraulic cylinder, 2" inch stroke. Seal plate has 1/2" NPT threaded outlet port with o-ring grooves to seal flanged valves from 3" to 12" 150# Class. Maximum diameter clearance of arms is 22 1/2"

Hydraulic cylinder is operated by an 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 TEST SYSTEM:

PUMPS: Air-driven piston pump, adjustable from 0-3000 PSI. Double-diaphragm pump, 0-100 PSI, 14 GPM pre-fill pump. Air-driven gas booster, 100 PSI inlet, 5,000 PSI outlet pressure. All pump & boosters have panel mounted regulators and discharge gauges.

GAUGES: 4" dial panel mounted auxilliary gauges for air supply, hydro pump discharge and hydrosulic clamping pressures. 6" dial all SS Test Gauges, with QDC's and red hand maximum pressure pointers for testing with the following ranges: 0-300, 0-600, 0-1500, 0-3000 & 0-5000 PSI all calibrated with certs.

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: A swing-out safety shield can be installed in the front of the test fixture. Shield has a square tubular frame and clear Lexan® window.

DATA ACQUISITION SYSTEM: Windows based software, with Excel spreadsheet, pressure transducers, 0-5 volt, Data Acquisition card, Dell PC with CD writer, Pentium IV, 2.0 gig, 20 gigabyte hard drive, 17" monitor, Winows XP, Office 2000, HP Printer, cables, all related software with licenses.

WARRANTY: 1 Year Full warranty, Techni-

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:

TEST STAND: 48" L x 36" W x 72" H.

DATA CONSOLE: 24" L X 24" W X 68" h

SHIPPING WT: APPROX. 3000 LBS.

