

FEATURES

- **DUAL CLAMPING FIXTURE:** Supplied with standard 100-ton by 24" stroke hydraulic clamping cylinder on the upper fixture, and a 100-ton cylinder on the lower fixture with 4- sliding arms.
- **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. Ability to clamp valves and tilt for venting, as well as horizontal testing of control valves.



Model STF shown with control console with built-in Data Acquisition System.

Barbee's New STF Series Tester provides the operator with greater testing efficiency. Valves can be lowered on a horizontal way, clamped in place and tilted to a vertical position for easy venting, testing and air-flush after the test is performed.

Since the test stand has the ability to clamp on one side of the flange as well, seat testing can be accomplished without any flange on the opposite side to view any seat leakage on valves being tested.

Both upstream and downstream seat testing can be accomplished, as well as shell testing of valves. The 100-ton clamping fixture allows testing of Class 300 valves up to 12" size. Higher hydrostatic test pressures to 6,000 PSI allows testing smaller valves (1500 # Class) with higher test pressures. Data Acquisition Systems, complete with panel-mounted PC and monitor can be included as optional items with this model.

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 STF Specifications

TEST COMPONENTS:

Flanged, wafer, and socket-weld valves from 2" to 12" 150# & 300# Class Flanged Valves. Class 600 and up depending on the size, see chart below.

TEST PRESSURE:

0-6,000 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 HYDRAULIC POWER UNIT, 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, 60:1 ratio adjustable from 250-6,000 PSI, other pump ratios and pressures available.

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: 0-1,500, 0-3,000, 0-5000 and 0-10,000 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: CONSOLE: 60" L X 32" W X 60" H. **FIXTURE:** 60" W X 96" L X 120" H
(VERTICAL) SHIPPING WT: APPROX. 3500 LB