



MODEL TF-100 T SHOWN WITH FIXTURE IN THE HORIZONTAL POSITION, CONTROL CONSOLE WITH BUILT IN RESERVOIR INSIDE, ALONG WITH HYDRAULIC POWER UNIT AND HYDROSTATIC PUMPS.

FEATURES

- **TILTING FIXTURE:** Valves can be loaded in the horizontal position, clamped in place, tilted to the vertical position for filling, venting & testing.
- **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.

Barbee's new design for the tilting fixture models incorporates a smaller footprint fixture, but with a robust 100-ton frame capable of testing up to a 12" 300 lb. Class flanged valve.

The tilt fixture has two hydraulic cylinders and is actuated by a four way control valve mounted in the panel. A hydraulic power unit is used to move the tilt fixture and the hydraulic clamping cylinder.

The clamping fixture has a 15" diameter plate with o-ring grooves. A 100-ton hydraulic cylinder with adjustable clamping pressure is used to seal on either the inlet or outlet flange of the valve. The fixture has a 33" clearance from the seal plates when fully retracted, and has a 30" travel on the cylinder. The fixture has clearance for 12" flanged valves.

Model TF-100T Specifications

TEST COMPONENTS:

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

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, 30 inch stroke. Seal plate has 1/2" NPT threaded outlet port with o-ring grooves to seal flanged valves from 3" to 12" 300# Class. Maximum diameter clearance of seal plates is 33" when fully retracted, 3" clearance when fully closed.

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. A hydraulic power unit with a 10-gallon reservoir is used for tilting and moving the clamping cylinder rapidly for set ups.

HYDROSTATIC SYSTEM:

PUMPS: Air-driven piston pump, 60:1 ratio adjustable from 250-6,000 PSI. On special units with a closed loop system, an air operated double-diaphragm pump, 0-100 PSI, 14-g.p.m flow is used as a Fill Pump.

GAUGES: 4" dial panel-mounted gauges, with chrome bezel, 0.5% accuracy full scale with Pressure Limiting Valves. Gauge ranges are: 0-600, 0-1,500, 0-3,000 and 0-6,000 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 with console, PC, software and hardware.

WARRANTY:

1 Year Full Warranty. (Refer to Barbee Terms and Conditions of Sale.)

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

SHIPPING WT: APPROX. 2500 LBS.

