

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:** Air-actuated tilting ram allows testing valves in the horizontal position, useful especially for swing check valves and large gate valves for easy seat leakage verification.



Model HP-6000-TR shown with optional dual gauge panel.

Barbee's TR Series Tester is widely used on board US Navy ships and shore facilities. This proven design has been in use for over two decades and still we are upgrading it with newer and better components.

The clamping fixture has a 20" diameter stainless steel plate with o-ring grooves. The four upright arms are spaced far apart to enable up to a 12" 300# Class flanged valve to be tested. 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 12" clearance from the clamping arms when the piston is in the fully retracted position. Both high pressure water and air is tested in the test port, up to 6,000 PSI water and 5,000 PSI air using an air-driven gas booster pump and piston pump.

This versatile test stand can perform seat tests with valves from 1/2" flanged and 12" flanged valves, and shell tests with an adapter top seal plate. Low Pressure air and water, with panel mounted pressure regulators can control test pressures as low as 10 PSI to 100 PSI.

A Safety Interlock Hydraulic valve prevents the accidental release of hydraulic clamping pressure with test pressures as low as 100 PSI, providing safe testing conditions.

Digital test timers with audio-visual alarms, bubble jars, and threaded pipe adapters are available as optional items and can be included with the tester.

Barbee's new Data Acquisition console, complete with PC, Monitor, Printer, software and hardware can be attached to the auxiliary gauge port of this tester for documentation of test data.

Model HP-6000-TR Specifications

VALVE SIZES & CLASS:

Flanged, wafer, and threaded valves from 1/2" NPT to 12" 300#, 8" 600 # & 5" 900 # Class Valves.

TEST PRESSURE:

0-6,000 PSI, 0-5000 PSI air (with a gas booster), LP air & water, from 0-100 #.

CLAMPING FIXTURE:

100-ton hydraulic cylinder, 10 inch stroke. Seal plate has 3/8" NPT threaded outlet port with o-ring grooves to seal flanged valves from 3" to 12" 150# Class. Maximum diameter clearance of arms is 24". Height clearance with the piston fully retracted is 12".

Optional 20" diameter upper seal plate, 2" thick with o-ring grooves for performing shell tests.

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 SYSTEM:

PUMPS: Air-driven piston pump, 60:1 ratio adjustable from 150 - 6,000 PSI water, gas booster from 100- 5,000 PSI, air driven.

GAUGES: 4" dial s used as panel-mounted gauges, with chrome bezel, 0.5% accuracy full scale with Pressure Limiting Valves. Gauge ranges are: 0-60, 0-160, 0-300, 0-600, 0-1500, 0-3000 and 0-6,000 PSI. Gauge cutout valves included. Optional dual gauge panel as shown available.

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

SAFETY FEATURES:

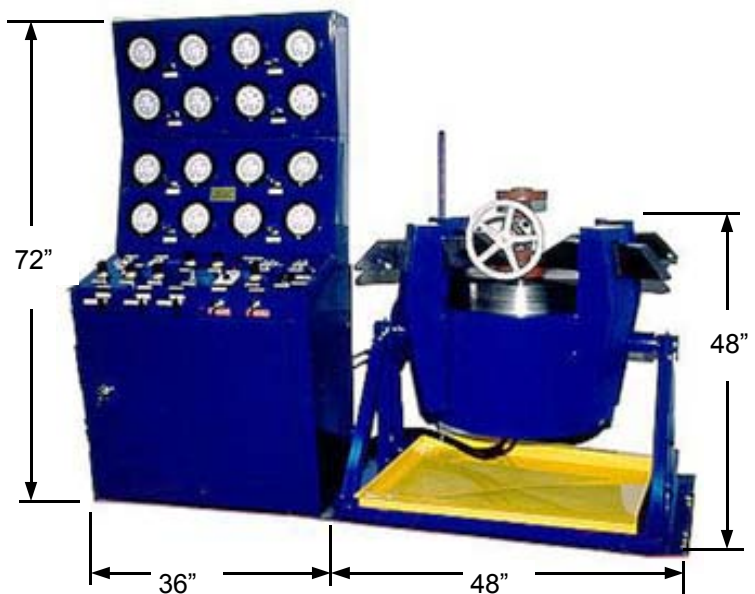
A Hydraulic Safety Interlock valve is installed in the circuit to prevent the accidental release of clamping pressure unless the test pressure is vented.

OPTIONAL FEATURES: Data Aquisition Console, DAQ Series.

WARRANTY:

1 Year Full Warranty. (Refer to Barbee Terms and Conditions of Sale.) Technical Manuals, hard copy and CD ROM 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: 36 x 24 x 72", FIXTURE: 48 X 48 X 48 "
SHIPPING WT: APPROX. 3000 LBS.