

FEATURES

- **ADJUSTABLE CLAMPING HEIGHT:** Dual height clamping arm fixture allows the sliding arms to be used in the lower or upper pocket, depending on the size of the valves to be tested.
- **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 Model SDF is identical to the standard S Series with the exception of the dual pocket vertical uprights. This unique modification allows the operator to test larger valves up to 22" overall face to face dimension. A 15" diameter test plate with o-ring grooves is used to seal the outlet of the flanged valve for shell testing.

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 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 22" clearance from the clamping arms when the piston is in the fully retracted position.

This compact and highly versatile tester can perform both upstream and down stream seat tests as well as body shell test on valves. It can also do seat test with 100 PSI shop air, as well as bottled gas with a few minor modifications.

The SDF can also be equipped with a 15-gallon water reservoir tank and have a closed loop recirculation system, allowing for water or other test media to be used. Gas boosters can also be added for high pressure air testing up to 2500 PSI on some models. Models can be equipped with swing-out Lexan shields.

Digital test timers with audio-visual alarms, leak rate indicators, threaded pipe adapters make this economical model a very cost effective addition to any manufacturing plant or repair shop.

Model H-500-S Specifications

TEST COMPONENTS:

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

TEST PRESSURE:

0-5,000 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, 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 22".

Optional 15" diameter upper seal plate, 2" thick seal plate 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 250-5,000 PSI. On special units with a closed loop system, an air operated double-diaphragm pump, 0-100 PSI, 5-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 0-5,000 PSI.

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

SAFETY FEATURES:

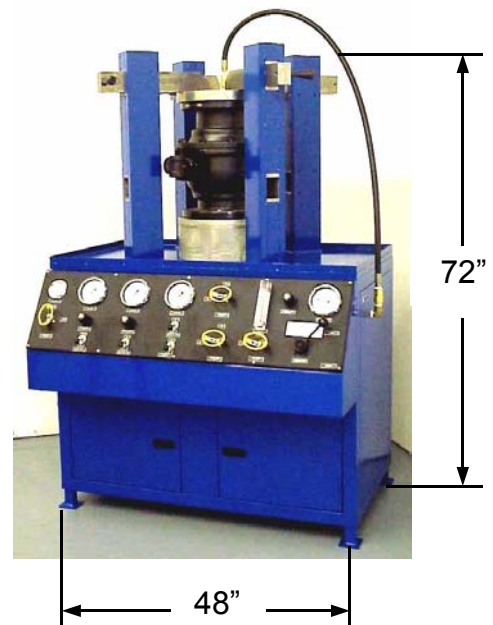
A Hydraulic Safety Interlock valve is installed in the circuit to prevent the accidental release of clamping pressure unless the test pressure is vented.

OPTIONAL: 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.

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



DIMENSIONS: 48" L x 36" W x 60" H.

SHIPPING WT: APPROX. 2500 LBS.