

FEATURES

- **HYDRAULIC CLAMPS:** Four hydraulic hold-down clamps for easy and secure set up.
- **SURGE TANK:** Maintains constant pressure once a valve pops to ensure a more precise reading.
- **SAFETY SHIELDS:** swing out Lexan shields provide operator safety.
- **ACCUMULATOR TANK:** Equipped with different size and pressure rating tanks depending on the size and pressure ratings of valves to be tested.
- **DATA ACQUISITION SYSTEM:** Can be supplied with self-contained Data Acquisition System, complete with software, hardware, PC, Monitor, and printer. (Optional, consult factory.)
- **PANEL MOUNTED CONTROLS:** Panel mounted pressure regulator, valves and gauges for easy access and controls.



Barbee's Portable Relief Valve Tester, Model TP-RV-H is designed to perform testing on pneumatic relief valves from 1/2" to 8" flanged with air or nitrogen. Depending on the model chosen, the size and pressure of the accumulator tanks can be customized for the particular test requirements.

The standard model is equipped with a Nitrogen regulator to regulate the nitrogen bottle to the desired test pressure of the valves to be tested. This model can also be supplied with an air-driven gas booster to boost 100 PSI shop air to the required test pressures, thus deleting the requirement for obtaining Nitrogen bottles. A panel mounted nitrogen regulator is installed for the standard models as shown in the photo above.

The tester is equipped with a 4" dial gauge, panel mounted with a red-hand maximum pressure pointer, and a 0.5% accuracy, full scale with calibration certificate and sticker. An auxiliary gauge port with a quick disconnect is provided for mounting extra 6" dial gauges, all with mirror dials, red hand maximum pressure pointers and 0.5% accuracy full scale.

Air-driven gas boosters are available in 10:1, 34:1 and 50:1 ratios, to provide higher pressure air instead of using Nitrogen bottles. The gas boosters are supplied with panel mounted regulators for easy control of the test pressures.

NPT adapters with a flange is provided for testing 1/4" to 2" threaded valves, with quick disconnects for easy assembly.

Model TP-RV Specifications

TEST COMPONENTS:

Flanged, and threaded valves from 1/2" NPT to 8" 150# Class Flanged Valves.

TEST PRESSURE:

0-3000 PSI with HP air or Nitrogen .

CLAMPING FIXTURE:

24" square test plate with four hold down clamps. O-ring grooves machined on the test plate for 1/2" to 8" flanged valves.

Threaded valve adapter plates with quick disconnects are provided for testing NPT valves from 1/4" to 2".

ACCUMULATOR TANK: Sizes from 1 gallon to 5 gallons ASME steel tank, also available in stainless steel or nickel plated

SURGE TANK: 2 Gallon surge tank for hydrostatic testing

TEST SYSTEM:

NITROGEN SOURCE: Panel mounted nitrogen regulator, adjustable from 50-2500 PSI, with 1/4" shut off valve and inlet pressure gauge.

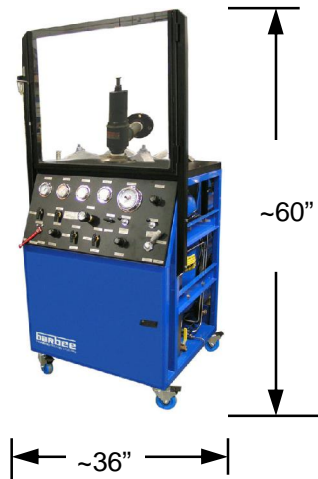
GAS BOOSTER SOURCE: Air-driven gas boosters, available in 0-1000, 0-3000 PSI output ranges with 100 PSI shop air.

SUPPLY VALVE: Air-actuated ball valve stainless steel with panel mounted actuator. Valves available from 1/2" to 2" depending on the tester requirements.

GAUGES: 4" dial panel-mounted gauges, with chrome bezel, 0.5% accuracy full scale 0-3000 PSI. An auxiliary gauge port is provided with quick disconnects for other gauge ranges.

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

VALVE TEST CAPABILITY				
ANSI CLASS	150	300	600	900
1/2"-2"	YES	YES	YES	YES
3"-5"	YES	YES	YES	NO
6"	YES	YES	YES	NO



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

SHIPPING WT: APPROX. 800 LBS.

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