

barbee

MODEL RV-5000

Safety Relief Valve Tester



The **Model RV-5000** is designed to test Safety Relief Valves with air and water up to 3000 PSI. (Optional 5000 system available.) The tester is equipped with a 100-ton clamping fixture capable of clamping 2" to 10" flanged valves, and 1/2" to 2" NPT valves.

Standard features include:

- 100-ton 3-arm clamping fixture. (Available with 4-arm optional)
- 10-gallon air surge tank, ASME 3000 PSI
- 10-gallon water surge tank, ASME 3000 PSI
- 1 1/2" 3000 PSI ball valve with actuator
- Control console cabinet, powder coated
- 6" dial gauges 0.5% accuracy full scale with red hand maximum pressure pointer.
- Digital Gauge for Data Acquisition with RS-232 output signal
- Data Acquisition System with laptop
- Data Acquisition Software and cables
- Epoxy coated platform with non-slip diamond plate and four lifting eye pads.
- Adapter plate with quick disconnects for 1/2" to 2" NPT valves
- Bubble jar with adapter plates and clamps
- Safety Lexan® shield with frame
- Safety Hydraulic Interlock valve prevents accidental release of clamping pressure when valves are under test pressure.

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Date: 3/29/2010 10:05:12 AM

Work Order: EVS1970

Test Sheet: RUN OFF TEST

Serial #: 1234

Technician: RG

Popping Pressure: 973.00 psi

Reseating Pressure: 493.00 psi

Target Pressure: 750

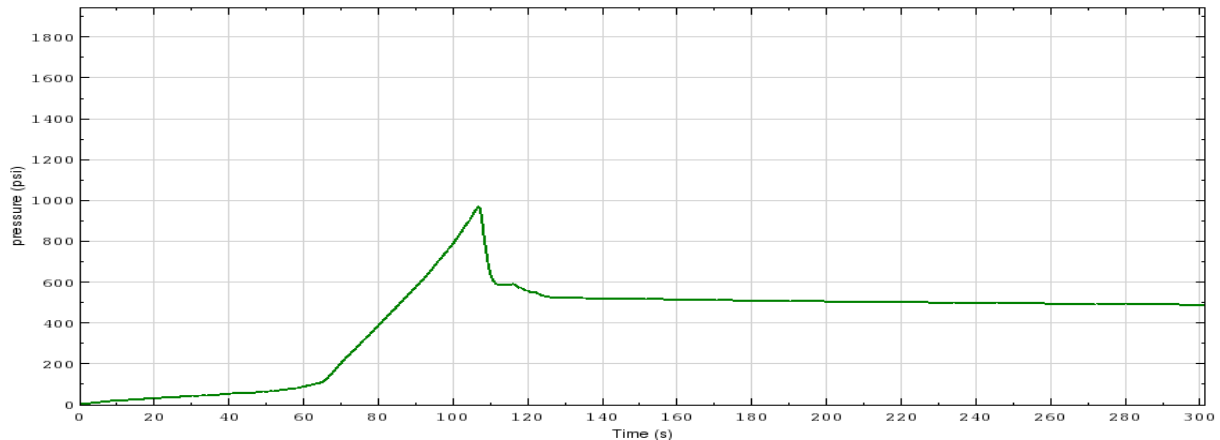
Valve: SRV

Valve Mfr: HYDRASEAL

Valve Size: 2 X 3

Ave. Slope: 1.65 psi/sec

Notes:



Data Acquisition

The set (popping) pressure, re-seat pressure, valve model and serial number, size can be displayed along with other data such as technician name, and date. Data is displayed on the flat screen monitor of the computer, and can be saved in the system as well as printed with the ink jet printer installed.

Optional Accessories:

- Muffler Assembly (MF-SERIES shown on next page attached to Model HP-6000-RV)
- HP Air Compressor Assembly Model HPAC (shown on the right) complete with HP Air Tanks.
- Spare Parts Kit
- Sea Worthy Shipping Container
- On-site training at customer's facility
- Free In-House training at @ Barbee's facility in San Diego, California

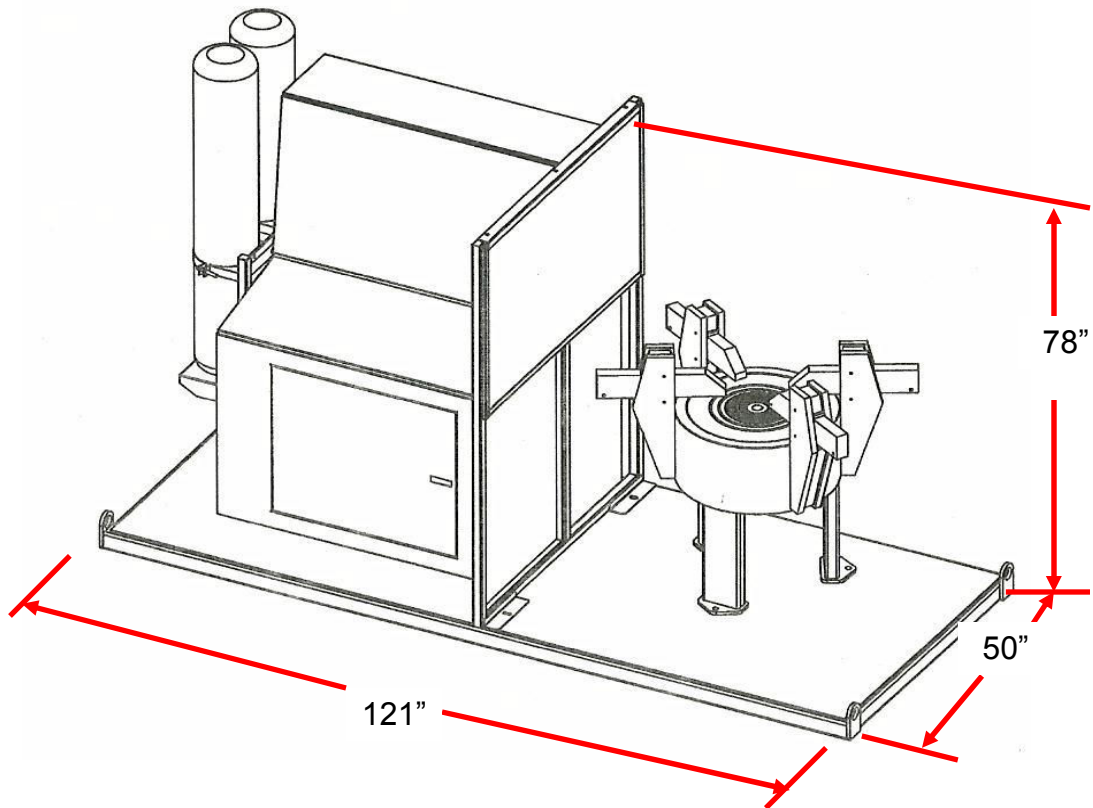
STD ACCESSORIES INCLUDED:

- NPT adapter plate 1/2 to 2" NPT
- Bubble jar with adapter plates
- Spare o-rings





MODEL HP-6000-RV SHOWN WITH OPTIONAL MODEL MF MUFFLER ASSEMBLY. MUFFLER CAN BE USED WHEN TESTING VALVES WITH AIR OR WATER. ON MOST VALVES MUFFLER CUTS DOWN AIR NOISE APPROXIMATELY 15-20 DECIBELS.



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MODEL RV-5000 SPECIFICATIONS

TEST COMPONENTS:

Flanged and threaded relief valves from 1/2" to 2" NPT, 2" to 10" flanged.

TEST PRESSURE:

0-3000 PSI air & water, 3000 PSI hydro. (Optional 5000 PSI system)

CLAMPING FIXTURES:

3-arm hydraulic clamping fixture (4-arm optional), 100-ton maximum clamping force, adjustable.

AIR TANKS: 10 gal. ASME air surge tank 3000 PSI, 10 gallon ASME water surge tank 3000 PSI.

DATA ACQUISITION:

Laptop with swivel base, software and hardware included. Digital gauge 0-3000 PSI panel mounted with RS-232 port.

HYDRO PUMP: Air-operated 0-3000 PSI for seat testing, adjustable pressures.

GAUGES: 6" dial panel-mounted gauges, 0.5% accuracy full scale, max pressure pointer, and gauge savers.

COMPONENTS: All high-pressure valves, fittings and tubing stainless steel. All gauges, valves and controls panel-mounted for ergonomic controls.

SAFETY FEATURES:

A hydraulic safety interlock valve is installed in the circuit to prevent accidental release of clamping pressure unless the test pressure is vented. Safety Lexan ® shield included to protect operator during tests.

UTILITIES REQUIRED: High Pressure air source, water supply, 100 PSI shop air.

VALVE TEST CAPABILITY

VALVE SIZES ANSI CLASS	VALVE SIZE	MAXIMUM TEST (BAR)	MAXIMUM TEST (PSI)
1/2" - 4"	15-100 MM	400 BAR	6000 PSI
5" - 6"	125-150 MM	300 BAR	4350 PSI
8" - 10"	200-250 MM	150 BAR	2100 PSI



DIMENSIONS: 121" L X 50" W X 78" H , APPROXIMATE WEIGHT: 4500 LBS. WITH HEAVY-DUTY EPOXY COATED PLATFORM WITH LIFTING EYE LUGS.