

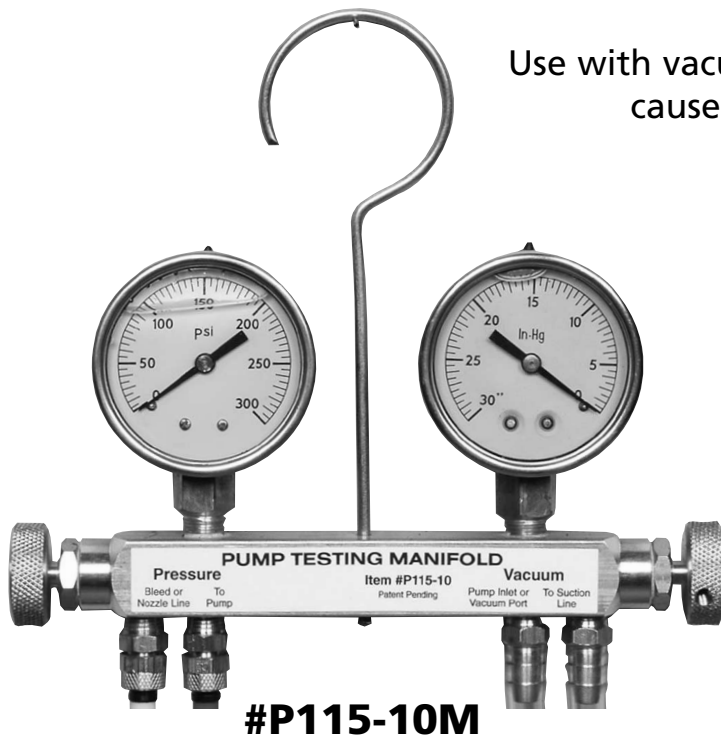
mitco MFG.

PUMP TESTING MANIFOLD

All the features of the P115-2M Kwik-Check II and the P115M Oil Watcher in one tool.
Also includes special fittings and instructions for testing Riello pumps.

Use to test pump pressure and cutoff of fuel oil pumps quickly and accurately.
No need to remove pump from oil burner. Can be used on all pumps
with operating pressures up to 300 psi.

Use with vacuum gauge to analyze problems in oil lines
caused by impurities, leaks and high restrictions.



- Quick hook-up fittings for easy testing.
- Accurately checks pressure, cutoff and vacuum under actual operating conditions.
- Liquid filled gauges for accurate readings.
- High pressure hoses for setting up today's higher pressure pumps.
- High impact case with handle.
- Complete with easy-to-follow instructions.
- Brass and high quality aluminum construction for long life.
- Color coded hoses for pressure hook-up.
- Clear tubing adapts to any suction line.
- Adapter fittings included for all pumps including Riello.

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Pump Testing Manifold Instructions

MAKE SURE POWER IS TURNED OFF AND CLOSE OIL LINE VALVES WHEN CONNECTING AND DISCONNECTING TESTER

1. To Check Pressure - disconnect nozzle line between pump and drawer assembly. Install pressure lines, red to pump and yellow to drawer assembly. Adapters for 1/4" flare fitting are supplied.
2. With pump testing manifold (PTM) pressure valve open (CCW) the operating pressure may be read. Turn pump pressure adjusting screw (CW) in all the way. The pump is bad if pressure drops off before adjusting screw is in all the way. The pump is good if maximum pressure is maintained with adjusting screw in all the way.
3. If pump passes, turn pressure adjusting screw (CCW) out until desired operating pressure is reached.
4. To Check Cutoff - with the burner running, close the PTM pressure valve (CW) all the way. Turn off the burner and read gauge. The pump is bad if pressure drops and does not hold. The pump is good if pressure drops approximately 25 PSI and holds
5. To Check Vacuum or for use as an Oil Watcher - disconnect oil line from pump or filter and install clear lines from the vacuum side of the PTM. Use the 1/2" adapters supplied where necessary.

6. You can now check the operating vacuum, oil for dirt, oil lines for air leaks and clogged lines. Small gas bubbles may appear in the fuel oil when oil is subjected to certain levels of vacuum. The higher the vacuum, the more gas bubbles appear. They should not be considered an air leak. If vacuum is not within manufacturer's specifications, an Afriso Oil De-Aerator is recommended. Where extremely high vacuum exists, check for clogged, kinked or frozen oil lines.

7. To Check Riello Pumps - use the supplied adapters (pictured above). The pressure adapter will attach to one of the pressure ports on the pump. Close the valve on the pressure side of the PTM (CW) and attach the red tubing to the adapter. Operating pressure can now be read. With the pump running by opening the valve on the pressure side of the PTM (CCW), the pump can be bled through the yellow tube.

8. To Check Vacuum - attach the vacuum adapter to the vacuum port on the cover or side of the pump. Close the valve on the vacuum side of the PTM (CW) and attach the clear tubing to the adapter with the female flare fitting. Operating vacuum can now be read.

WARNING: This tool is intended for use by a qualified professional familiar with oil heating systems. Use by unqualified persons can result in hazards to that person and to others. Always refer to the manufacturer's specifications when setting up burner and pump.

