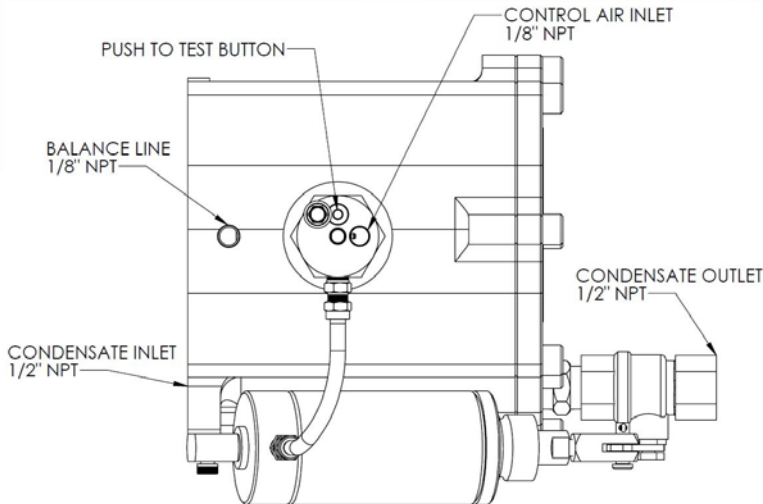


INSTALLATION GUIDE

INSTALLATION STEPS

1. Prior to installing the trap, isolate, depressurize and blow down the vessel being drained to remove excessive rust, scale, and dirt knocked loose during piping installation.
2. Remove the trap from the box and set it in an upright position where it will be connected. For balance line installations, ensure that the top of the trap is lower than the bottom of the vessel being drained.
3. Using 1/2" pipe, connect the vessel being drained to the 1/2" liquid inlet on the base of the trap. Be sure to install inlet and outlet isolation valves between the vessel being drained and the trap. This will allow easy removal of the trap "on the run" during any preventive maintenance activities.
4. Using 1/2" pipe, connect the trap discharge outlet to a drain pipeline or enclosed/covered trough. The discharged liquid is under pressure and can splash back if directed downward toward the bottom of a simple, shallow, open through-type floor drain. Please ensure that the ball valve does not rotate during the discharge pipe installation. The linkage between the ball valve and air cylinder must be vertical to prevent binding.
5. Connect the balance line from the trap to the appropriate connection point on the vessel being drained. The balance line is used to prevent a vapor lock in the trap. It is very important that the balance line never droops or slopes upward. The method 3 installation requires that the trap be vented to atmosphere. In this case the provided needle valve should be installed in the balance line port and opened 1/16th to 1/8th of a turn. The resulting air flow through the needle valve should be 0.2 to 0.4 SCFM.
6. Connect the control air supply line to the control air inlet port on the trap. **It is recommended to install a 5 micron air filter/separator on the control air supply line.** In addition to the filter, always use the cleanest and driest air possible to ensure long term, maintenance free operation. (Reference Premium Install Kit P/N: KTLH50-K2)
7. Restart/re-pressurize system and check for leaks at pipe and fitting connections.



SPECIFICATIONS AND MATERIALS OF CONSTRUCTION

Part Number	LH50-0LA AA
Max Liquid Temp—°F (°C)	170 (76.7)
Max Liquid Pressure—PSIG (BARG)	200 (13.7)
Control Air Pressure—PSIG (BARG)	40 (2.8) to 130 (8.96)
Capacity—HP (SCFM)	100 (500)
Housing and Front Plate	Anodized Aluminum
Control Circuit and Air Cylinder	Aluminum
Float	Polyurethane
Housing Seal and O-Rings	Fluorocarbon
Fittings	Brass
Ball Valve	Nickel Plated Brass
Front Plate Hardware and Clevis	Zinc Plated Steel
Control Lever and Shouldered Bolt	Stainless Steel

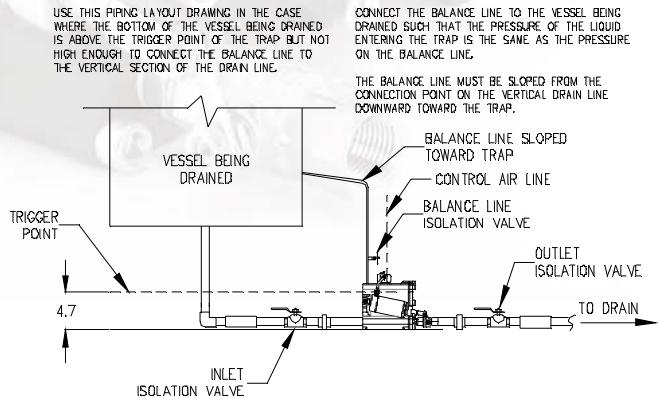
Quality System ISO 9001 Certified Patent# 5,983,919



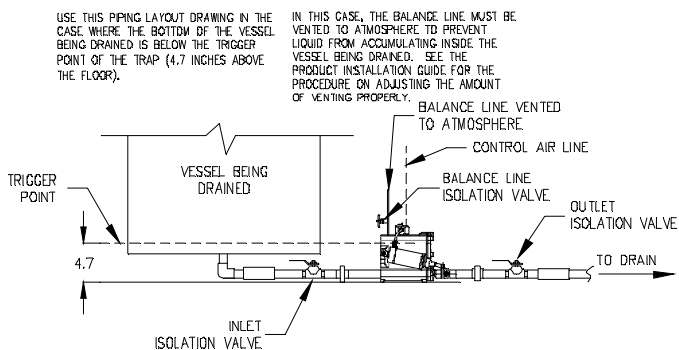
a product of
 Control Devices, LLC

Installation Methods

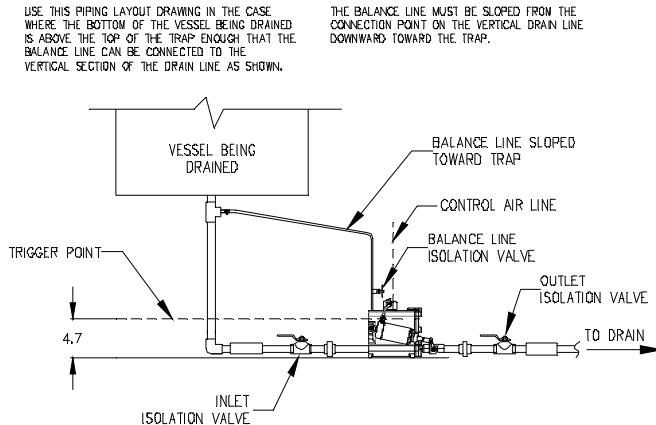
METHOD 1



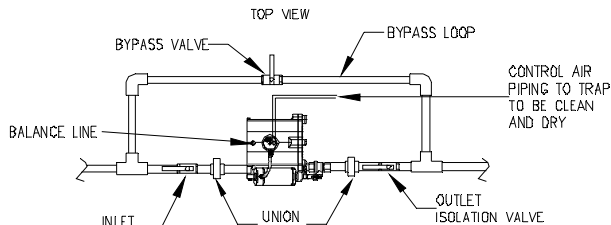
METHOD 3



METHOD 2



TYPICAL BYPASS CIRCUIT



		CONTROL DEVICES LLC 1866 LARKIN WILLIAMS ROAD TEXTON, MD 20686	
TITLE		WATER HOG TRAP INSTALLATION	
DATE	06/06/13	DESIGN NUMBER	IG-LHS1001
REV	A	DESIGNED BY	UNSPECIFIED

UNLESS OTHERWISE NOTED
ALL DIMENSIONS ARE IN INCHES

Installation Locations

1. Connect balance line to vessel being drained, to header leaving vessel being drained, or vent to atmosphere – do not manifold balance lines together.
2. Balance line balances reservoir of trap to vessel being drained. Control air operates air cylinder. These two should not be connected together.
3. Bring control air from clean dry source downstream of dryer if possible, can manifold control air lines together.

