



**JATCO, INC.**  
ENVIRONMENTAL  
PROTECTION  
EQUIPMENT

**Installation Instructions  
JATCO Environmental Protection Tank  
J-5000cx SS**

**\*INSTRUMENTATION GAS IS MANDATORY FOR SUPPLY GAS\***

The JATCO Environmental Tank must be installed at a level which will allow the waste liquids to be disposed of to gravity flow into the tank.

**IMPORTANT: The top of the tank must be below the level of waste liquids to be received.**

Inlet and the outlet check valves are both teed from the same port near the bottom of the tank (end opposite the sight glass). When facing this end, the inlet check valve is on the left (**A**) and the outlet check valve is on the right (**B**).

The discharge should be piped directly to the storage tank that is to receive the waste liquid. The discharge may be teed into an existing flow line, provided that a high-pressure check valve (1000 psi) is installed to prevent high pressure from returning to the discharge check valve on the JATCO tank.

The tank supply gas must have adequate **volume** and pressure. For best operation use 1" pipe for the tank supply gas plumed as close to the tank as possible. Then reduce down to the tubing connection (**C**) on the JATCO tank.

Supply gas pressure (40 psi minimum) is connected to the bottom inlet of the micro valve (**C**) this gas pressure must not exceed (100 psi) for normal operation. No pressure regulator is provided as most applications for this device have regulated gas pressure supplied for engine fuel or burner gas.

Manual dump plunger and gauge cock knobs are removed for shipping.

**Manual dump plunger:** Install in 1/8" NPT hole in top of valve body (**F**).

**Note: The gland nut should be finger tight only.**

Depressing the manual dump plunger allows the operator to check function of the float and micro valve. When the plunger is depressed, the tank will cycle once and return to the automatic operation. The plunger button should be returned to the extended position.

3-way pilot valve (**G**) is vented thru 1/4" NPT port (**H**).

Liquid levels in the JATCO tank may be observed in the sight glass furnished as standard equipment.



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**Service Guide  
JATCO Environmental Tanks  
J-5000cx SS**

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Listed below are a series of steps to follow if the JATCO tank fails to dump properly.

The tank supply gas must have adequate **volume** and pressure. For best operation use 1" pipe for the tank supply gas plumed as close to the tank as possible. Then reduce down to the tubing connection (C) on the JATCO tank.

Be sure there is an adequate supply of gas pressure (40-100 psi), to the inlet connection (C) on the micro valve. If there is enough pressure at the inlet connection, press down on the manual dump plunger (F). This should cause the tank to dump, then vent when the cycle is complete. If the JATCO tank fails to dump manually, remove connector tubing to pilot valve (G) to test for pilot pressure from 3-way micro valve (D). If the 3-way micro valve is not sending pressure to pilot valve when depressing manual dump plunger (F), removal and or inspection of micro valve will be necessary and proceed to step #2. If pressure is present but pilot valve fails to operate, removal inspection, and or replacement may be necessary.

**\*Note: 2" valve body (Bull plug) does not need to be removed to change out micro valve.**

To remove the micro valve, remove the top vent tube connector and the bottom gas supply connector to allow access and removal of the two hex socket cap screws. Remove the cap screws and the micro valve from the valve body. Inspect the inlet port to see if any obstruction has lodged in the orifice which could clog the micro valve. If no obstruction is visible, apply gas pressure to the inlet port and operate the toggle spring. Flipping the toggle up should allow gas to flow out center 1/4" npt port. If operating the toggle does not allow gas to flow, the micro valve must be replaced.

To replace micro valve: remove mounting plate from old micro valve by removing the two flat head allen screws. Re-install mounting plate on new micro valve with the same end up as on the old micro valve.

To re-install the micro valve and mounting plate assembly on the 2" valve body, flip the toggle to the down position and insert toggle spring through the center hole in the valve body. Re-install the two mounting cap screws, the vent connector, and the gas supply connectors. Check system by depressing manual dump plunger.

To remove the 2" valve body: Remove micro valve as previously described. Remove manual dump plunger. Loosen hex nut on top of valve body and tap down pivot pin. This allows the float arm assembly to swivel while turning valve body out of tank. Remove float assembly carefully to avoid bending the float arm.

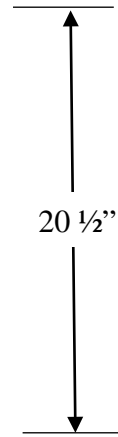
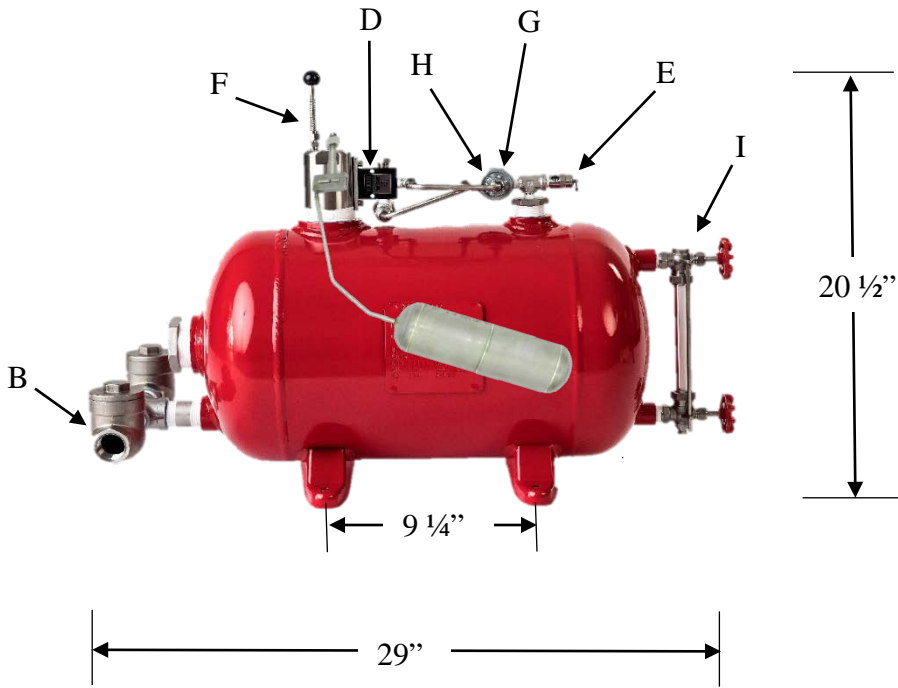
To install valve body, insert float arm into the tank with the float toward the gauge cock end of the tank. Hold the float pivot with a screwdriver, keeping the slot on the pivot positioned ninety degrees to the float arm. Tighten the 2" valve body into the tank, positioning the machined surface toward the gauge cock end of the tank, while holding the float pivot with a screwdriver; tighten the hex nut to lock the float arm in place. Re-install manual dump plunger and depress it while observing the trip lever through the toggle hold on valve body. The trip lever should be visible and centered.

Re-install gasket and micro valve.

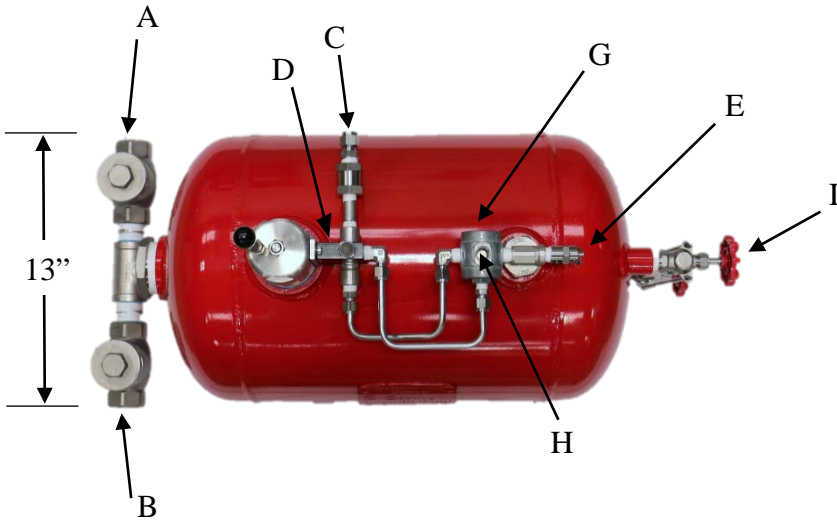


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## J-5000cx SS



- A. Inlet Check Valve 1" NPT  
JM5005
- B. Discharge Check Valve 1" NPT  
JM5005
- C. Supply Gas Inlet 1/2" Compression  
(40-100 psi)
- D. 1/4" NPT Micro Valve  
JM5001x SS
- E. Pressure Relief Valve  
JM5002-100
- F. Manual Dump Plunger Assembly  
JM5003
- G. 3-Way Pilot Valve  
JM5008x SS
- H. Vessel Vent 1/4" NPT
- I. Gauge Cocks & Sight Glass  
JM5009 & JM5010





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The warranty provision contained herein shall not apply to or cover any defects resulting from normal wear and tear, unauthorized changes, repairs, alterations or modifications to the product: or any other causes beyond the control of JATCO, Inc.

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