



JATCO, INC.
ENVIRONMENTAL
PROTECTION
EQUIPMENT

Installation Instructions
JATCO Environmental Protection Tank
J-7000

INSTRUMENTATION GAS IS MANDATORY FOR SUPPLY GAS

The JATCO Environment 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 at the top of the tank. The inlet check valve is 2" NPT (**A**) and the outlet check valve is the 1" NPT (**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 plumbed 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.

Depressing the manual dump plunger (**F**) 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.

Three-way pilot valve (**G**) is vented through $\frac{3}{4}$ " NPT port (**H**).



Service Guide
JATCO Environmental Tanks
J-7000

INSTRUMENTATION GAS IS MANDATORY FOR SUPPLY GAS

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 plumbed 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 of the 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.

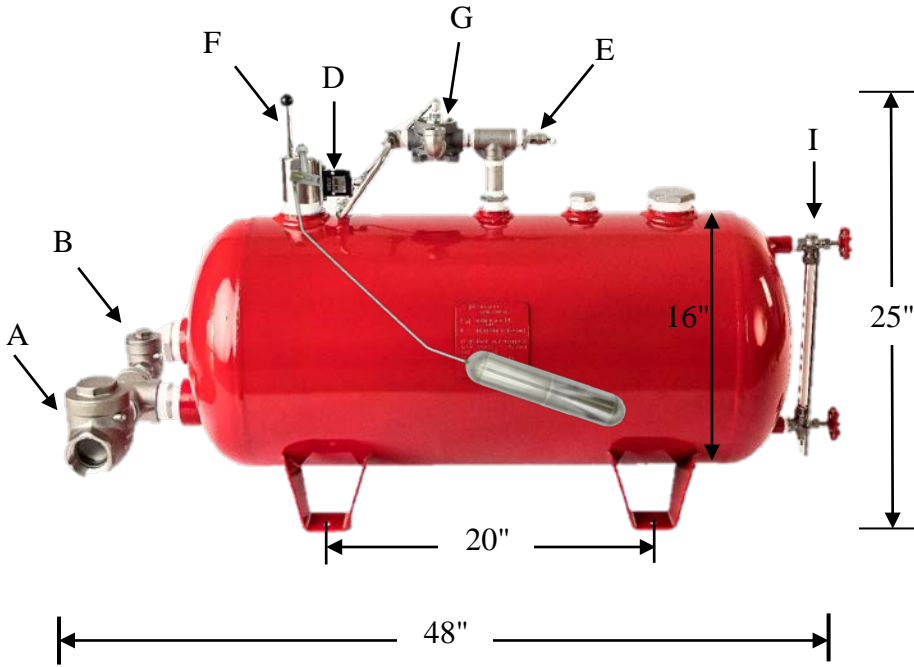
To install valve body, insert float arm into the tank with the float toward the gauge cock end of the tank. Hold the float pivot with a screwdriver, keeping the slot on the pivot positioned ninety degrees to the float arm. Tighten the 2" valve body into the tank, positioning the machined surface toward 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.

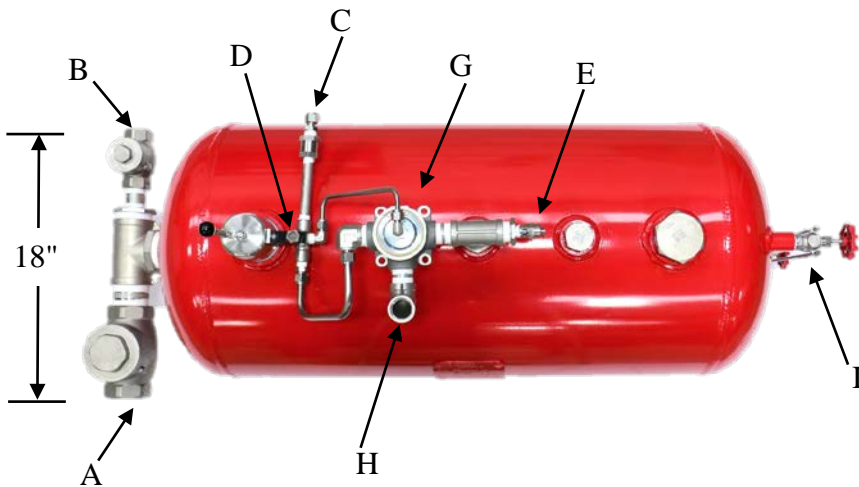


JATCO, INC.
 ENVIRONMENTAL
 PROTECTION
 EQUIPMENT

J-7000



- A. Inlet Check Valve 2" NPT
JM7005-2
- B. Discharge Check Valve 1" NPT
JM7005-1
- C. Supply Gas Inlet 1/2" Compression
(40-100 psi)
- D. 1/4" NPT Micro Valve
JM7001x
- E. Pressure Relief Valve
JM7002-100
- F. Manual Dump Plunger Assembly
JM7003
- G. 3-Way Pilot Valve
JM7008x
- H. Vessel Vent 3/4" NPT
- I. Gauge Cocks & Sight Glass
JM7009 & JM7010





JATCO, INC.
ENVIRONMENTAL
PROTECTION
EQUIPMENT

WARRANTY

JATCO, Inc. warrants its products to be free from defects in materials and workmanship, under normal use and service, for a period of one year from the date of shipment. The sole liability and exclusive remedy is limited to the repair or replacement, at the option of JATCO, Inc., of the product, or any parts thereof, which upon examination by JATCO, Inc., disclose to its satisfaction defects due to faulty material or poor workmanship, and which defects are reported to JATCO, Inc., in writing, during the warranty period.

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.

JATCO, Inc. neither assumes nor authorizes any other person or business organization to assume for it any other warranty or liability in connection with the sale, use or operation of its products.



JATCO, INC.
ENVIRONMENTAL
PROTECTION
EQUIPMENT

JATCO INC. **OPERATING MANUAL DISCLAIMER**

Except as otherwise expressly provided in the “Warranty” section of this manual, JATCO, Inc. does not warrant that the system or any of its components will work properly in all environments or under all conditions and makes no warranty or representation, express or implied, with respect to the quality, performance, merchantability, or fitness for a particular purpose of the system or its components.

This operating manual is not intended as an installation guide for the product. This product is intended to be installed by an installation specialist. For a list of such installation specialists please contact JATCO, Inc. In the event the product is not installed by an installation specialist, the warranty provided in the “Warranty” section of this manual shall not apply to any defects, damage, or other failure of the product to properly function due to improper installation, and JATCO shall have no liability whatsoever for any loss, damage, injury, cost, or expense of any nature arising out of an installation of the product by anyone other than an installation specialist.

The information in this manual is subject to change without notice. JATCO, Inc. makes no representations or warranties with respect to the contents of this manual. JATCO, Inc. reserves the right to revise this manual and to make changes from time to time in the content hereof without any obligation of JATCO, Inc. to notify any person of such revisions or changes. It shall be the user’s responsibility to determine whether any changes or revisions to this manual have been made. Neither JATCO, Inc. nor any of its directors, shareholders, officers, employees, or agents shall be liable in contract, tort, or in any other manner whatsoever to any person for any loss, damage, injury, liability, cost or expense of any nature, including without limitation, incidental, special, direct, or consequential damages arising out of or in connection with the use of this manual.

This manual is proprietary to JATCO, Inc. and no ownership rights in this manual or its contents are transferred to the user. No part of this manual shall be used, reproduced, translated, converted, adapted, stored in a retrieval system, communicated or transmitted by any means, for any commercial purpose, including without limitation, sale, resale, license, rental or lease, without the prior written consent of JATCO, Inc. Any product or component part names used in this manual that are not property of JATCO, Inc. are the properties of the respective owners of such products or component parts and each of JATCO, Inc. and the user acknowledge such ownership.