



**JATCO, INC.**  
ENVIRONMENTAL  
PROTECTION  
EQUIPMENT

**Installation Instructions  
JATCO Environmental Protection Tank  
J-7000 SM-P 100 ABV**

**\*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 check valve 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 connections (**C**) and (**J**) on the JATCO tank.

Supply gas pressure is connected to the inlet of the level control valve (**C**) this gas pressure must meet 70 PSI and not exceed 75 PSI. A separate supply gas pressure is connected to the 3-way ball valve (**J**) this gas pressure must not exceed 100 PSI for normal operation. No pressure regulator is provided as most applications for this device have pre-regulated gas pressure supplied.

Depressing the manual dump plunger (**F**) allows the operator to check function of the float control valve actuator. When the plunger is depressed, the tank will cycle once and return to the automatic operation when the plunger released. The plunger button should be returned to the extended position.

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

Be sure there is an adequate supply of gas pressure (**70-75 psi**), to the inlet connection at the level control valve. If there is enough pressure at the inlet connection, press down manual dump plunger (**F**) to empty tank, then vent when the cycle is complete. If the JATCO tank fails to dump manually, remove connector tubing to actuator (**G**) to test for pilot pressure from level control valve (**D**). If level control valve is not sending pressure to the actuator (**G**) when depressing manual dump plunger (**F**), removal and or inspection of level control valve will be necessary. If pressure is present but actuator fails to operate, remove inspect and or replacement may be necessary.



**JATCO, INC.**

ENVIRONMENTAL  
PROTECTION  
EQUIPMENT

**Service Guide**  
**JATCO Environmental Protection Tanks**  
**J-7000 SM-P 100 ABV**

**\*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 connections **(C)** and **(J)** on the JATCO tank.

Be sure there is an adequate supply of volume and gas pressure (70-75 psi), to the inlet connection on the level control valve **(C)**, and (100psi max) to the 3-way ball valve supply **(J)**. If there is enough pressure at the supply connections, press down on the manual dump plunger **(F)**. This should cause the tank to manually dump, then vent through **(H)** when the cycle is complete. If the JATCO tank fails to dump manually, remove pilot signal connector tubing to 3-way ball valve’s actuator **(G)** to test for pilot signal from level control valve. If the level control is not sending a pilot signal to the actuator when depressing manual dump plunger, removal and or inspection of level control will be necessary and proceed to next step. If pilot signal pressure is present but actuator fails to operate, usually the pilot signal will escape from the actuator vent orifice. This indicates O-ring failure in the actuator and replacement may be necessary. The actuator does have a repair kit mainly consisting of O-rings.

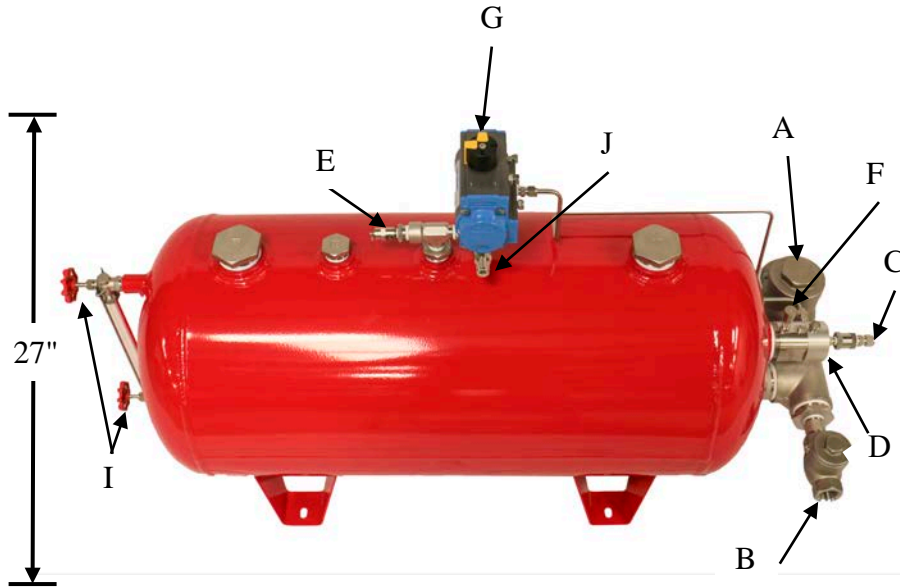
Step #2 the side mount level controller has very few moving parts. If the valve is not operating properly, remove and inspect travel of float arm. If no obstruction is visually present but the float arm does not travel freely then removal of float arm is necessary. To remove float arm carefully drive float arm retaining pin out with a hammer and punch. Then inspect magnet and chamber for debris. If there is no obstruction with float arm assembly or tubing connections, replacement may be necessary.



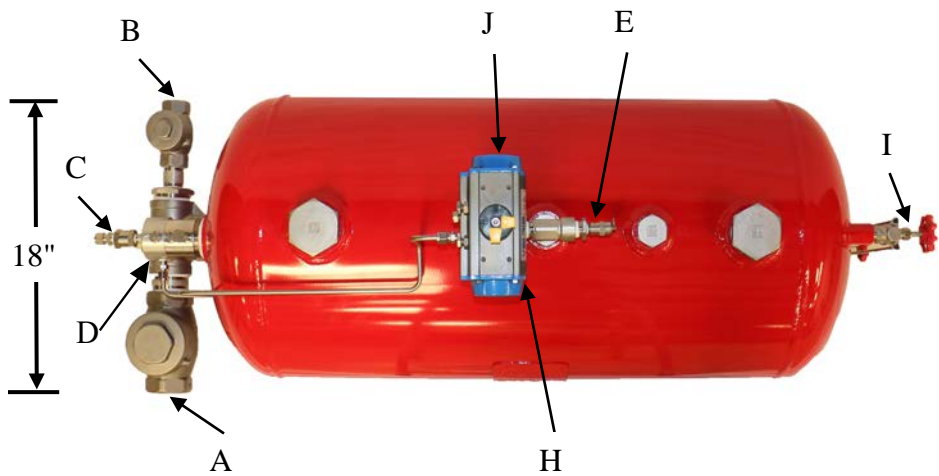
**JATCO, INC.**

ENVIRONMENTAL  
PROTECTION  
EQUIPMENT

# J-7000 SM-P 100 ABV



49"



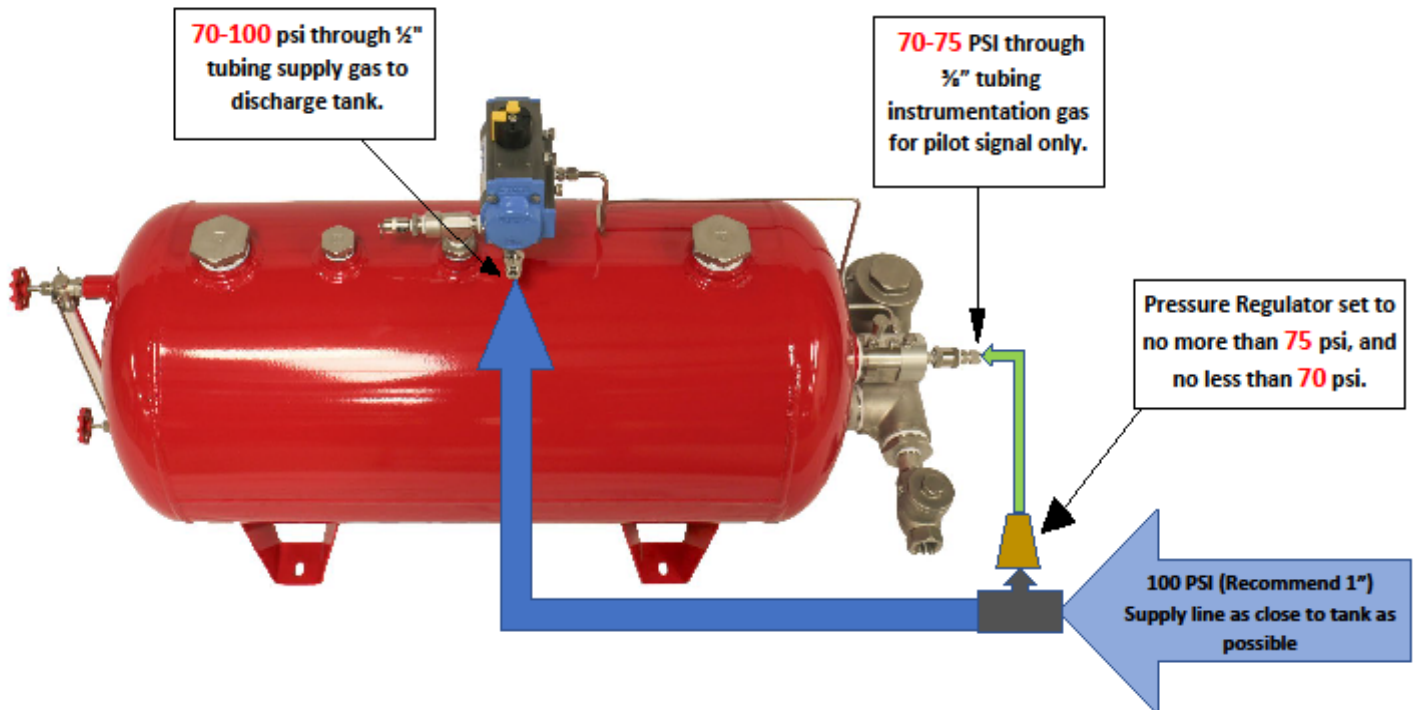
18"

- A. Inlet Check Valve 2" NPT  
JM7002-2
- B. Discharge Check Valve 1" NPT  
JM7005-1
- C. Supply Gas Inlet 1/2" NPT  
Compression (70-75 psi)
- D. Liquid Level Control Valve  
JM7011-SM-P
- E. Pressure Relief Valve  
JM7002-100
- F. Manual Dump Plunger Assembly  
JM7003
- G. 3-Way Actuated Ball Valve  
JM7008x-ABV
- H. Vessel Vent 1/2" NPT
- I. Gauge Cocks & Sight Glass  
JM7009 & JM7010
- J. Tank Motive Gas Supply 1/2" NPT  
Compression 200 psi Max



**JATCO, INC.**  
ENVIRONMENTAL  
PROTECTION  
EQUIPMENT

## J-7000 SM-P 100 ABV





**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.