



JATCO, INC.
ENVIRONMENTAL
PROTECTION
EQUIPMENT

**Installation Instructions
JATCO Environmental Protection Tank
J-5000 SM-P**

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 plumbed as close to the tank as possible. Then reduce down to the tubing connection (**C**) on the JATCO tank.

Supply gas pressure minimum (40 psi) is connected to the bottom inlet of the level control valve (**C**) this gas pressure must not exceed (75 psi) for normal operation. No pressure regulator is provided.

Gauge cock knobs are removed for shipping.

Depressing the manual dump plunger allows the operator to check function of the float and level control 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 through 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-5000 SM-P**

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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 plumbed as close to the tank as possible. Then reduce down to the tubing connection (C) on the JATCO tank.

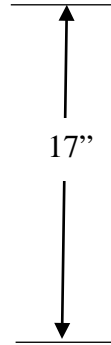
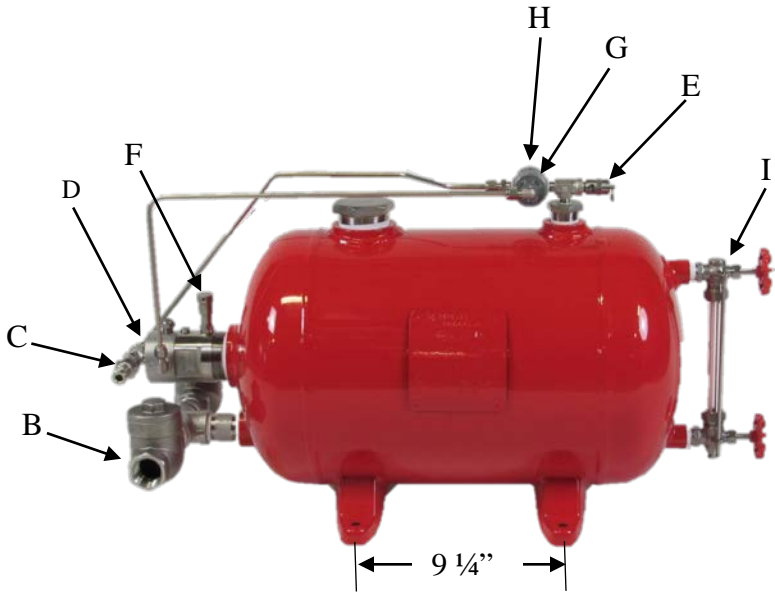
Step #1 be sure there is an adequate supply of gas pressure (40-75 psi), to the inlet connection on the float control valve. If there is enough pressure at the inlet connection, press down on the manual dump plunger. This should cause the tank to dump, then vent when the cycle is complete. If the JATCO tank fails to dump manually, remove connector tubing to pilot valve (G) to test for pilot pressure from float control valve (D). If the float control valve is not sending pressure to pilot valve when depressing manual dump plunger (F), removal and or inspection of float control will be necessary and proceed to step #2. If pressure is present but pilot valve fails to operate, removal, inspection, and or replacement of the pilot valve may be necessary.

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.

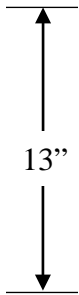
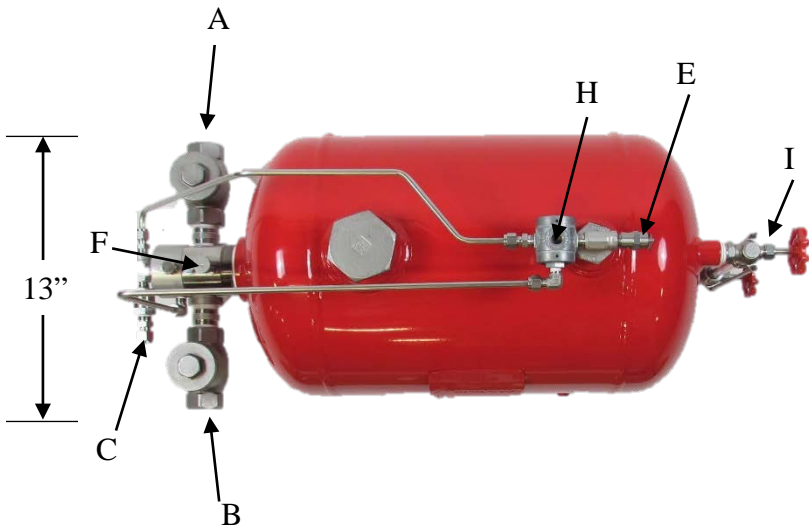


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J-5000 SM-P



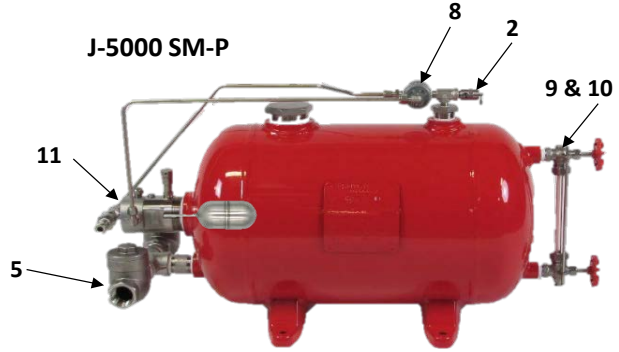
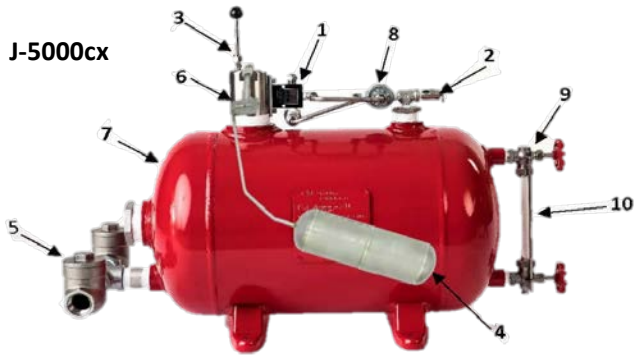
- A. Inlet Check Valve 1" NPT
JM5005
- B. Discharge Check Valve 1" NPT
JM5005
- C. Supply Gas Inlet 1/2" Compression
(40-75 psi)
- D. Liquid Level Control Valve
JM5011 SM-P
- E. Pressure Relief Valve
JM5002-100
- F. Manual Dump Plunger Assembly
JM5003
- G. 3-Way Pilot Valve
JM5008x
- H. Vessel Vent 1/4" NPT
- I. Gauge Cocks & Sight Glass
JM5009 & JM5010





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JATCO Inc.
J-5000cx & J-5000 SM-P Tank Parts



No.	Item#	Description
1	JM5001X	3-Way Micro Valve w/Mounting Plate
2	JM5002 -100	1/4" SS Pressure Relief Valve 100 PSI
2	JM5002 -200	1/4" SS Pressure Relief Valve 200 PSI
2	JM5002 -100-IL	3/8" Stainless Steel In Line Pressure Relief Valve 100 PSI
2	JM5002 -200-IL	1/2" Stainless Steel In Line Pressure Relief Valve 200 PSI
3	JM5003	Manual Dump Plunger Assembly
3	JM5003-G	Greaseable Manual Dump Plunger Assembly
4	JM5004	Stainless Steel Float Arm & Pivot Assembly w/Float
5	JM5005	1" Check Valve
6	JM5006	2" Stainless Steel Valve Body "Bull Plug"
7	JM5007	10-Gallon ASME Code Vessel
8	JM5008x	1/4" Pilot Valve
8	JM5008x-CK	1/4" Pilot Valve Conversion Kit
9	JM5009	SS Gauge Cock Set
10	JM5010	Red Line Gauge Glass
11	JM5011	Complete Float Control Assembly (Item #1, 3, 4, 6)
11	JM5011 SM-P	Complete Float Control Assembly
11	JM5011 SM-P CK	Complete Float Control Assembly Conversion Kit
12	JM5012	Complete Control Set (Item #1, 2, 3, 4, 6, 8)
12	JM5012 SM-P	Complete Control Set
12	JM5012 SM-P 100 ABV	Complete Control Set
12	JM5012 SM-P 200 ABV	Complete Control Set 200 PSI
12	JM5012-200	Complete Control Set 200 PSI
13	JM5013	3/8" x 1/4" SS Inline Filter

STAINLESS OPTIONS

No.	Item#	Description
1 SS	JM5001x-SS	3 Way Stainless Steel Micro-Valve
8 SS	JM5008x-100-SS	1/4" Stainless Steel Pilot Valve
8 SS	JM5008x-200-ABV	1/2" Stainless Steel 3 Way Ball Valve w/Actuator
8 SS	JM5008x-SS-100-CK	1/4" Stainless Steel Pilot Valve Conversion Kit 100 psi
8 SS	JM5008x-200-ABV-CK	1/2" Stainless Steel 3 Way Ball Valve w/Actuator Conversion Kit
11 SS	JM5011 -SS	Stainless Steel Complete Float Control Assembly
12 SS	JM5012 -SS	Stainless Steel Complete Control Set 100 PSI
12 SS	JM5012 -200-SS	Stainless Steel Complete Control Set 200 PSI

J-5000-Box

Insulated Box Only (not assembled)



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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.



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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.

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