

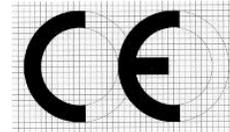


# POLYURETHANE MACHINERY CORPORATION



## TL-12 FLUSH TANK

Manual  
Ref. # MN-???



**REVISION 1.0**

### **Polyurethane Machinery Corp.**

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08701

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***Before using the Flush Tank, carefully read all the technical and safety documentation included in this manual. Pay special attention to the information in order to know and understand the operation and the conditions of use of the Flush Tank. All of the information is aimed at improving user safety and avoiding possible failures from the incorrect use of the Flush Tank.***



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## **WARRANTY**

Polyurethane Machinery Corporation (hereinafter “PMC”) provides this **LIMITED WARRANTY** (hereinafter “Warranty”) to the original purchaser (hereinafter “Customer”) covering this equipment and the original PMC manufactured accessories delivered with the equipment (hereinafter “Product”) against defects in material or workmanship of the Product (hereinafter “Defect” or “Defective”) for a period of one (1) year from the date of first purchase as shown on the original PMC invoice (hereinafter “Warranty Period”).

If during the Warranty Period under normal use, the Product is suspected by Customer to be Defective in material or workmanship, it is Customer’s responsibility to contact PMC and return the Product to PMC as directed by PMC, freight prepaid. If PMC determines that the Product is Defective and that such Defect is covered by this Warranty, PMC will credit Customer for the reasonable freight charges incurred by Customer in returning the Defective Product to PMC, and PMC (or its authorized agent) will, at PMC’s option, repair or replace the Product, subject to the following:

Original Invoice: The original invoice must be kept as proof of the date of first sale and the Product serial number. The Warranty does not cover any Product if the Original Invoice appears to have been modified or altered, or when the serial number on the Product appears to have been altered or defaced.

Product Maintenance: It is the Customer’s responsibility to maintain the Product properly. See your maintenance schedule and owner’s manual for details. The Warranty does not cover an improperly maintained Product.

Non-PMC Components and Accessories: Non-PMC manufactured components and accessories that are used in the operation of the Product are not covered by this Warranty. Such components and accessories shall be subject to the warranty offered to the Customer, if any, by the original manufacturer of such component or accessory.

Other Warranty Exclusions: The Warranty does not cover any Product that PMC determines has been damaged or fails to operate properly due to misuse, negligence, abuse, carelessness, neglect, or accident. By way of example only, this includes:

- Normal wear and tear.
- Improper or unauthorized installation, repair, alteration, adjustment or modification of the product.
- Use of heating devices, pumping equipment, dispensers, or other parts or accessories with the product that have not been approved or manufactured by PMC.
- Failure to follow the operating instructions and recommendations provided by PMC.
- Cosmetic damage.
- Fire, flood, “acts of God,” or other contingencies beyond the control of PMC.



## WARRANTY

**THE WARRANTY DESCRIBED HEREIN IS THE EXCLUSIVE REMEDY FOR THE CUSTOMER AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, IMPLIED, STATUTORY OR OTHERWISE, AND THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND ALL OTHER WARRANTIES ARE HEREBY DISCLAIMED. TO THE FULLEST EXTENT PERMITTED BY LAW, PMC SHALL NOT BE RESPONSIBLE, WHETHER BASED IN CONTRACT, TORT (INCLUDING, WITHOUT LIMITATION, NEGLIGENCE), WARRANTY OR ANY OTHER LEGAL OR EQUITABLE GROUNDS, FOR ANY CONSEQUENTIAL, INDIRECT, INCIDENTAL, LOST PROFITS, SPECIAL, PUNITIVE OR EXEMPLARY DAMAGES, WHETHER TO PERSON OR PROPERTY, ARISING FROM OR RELATING TO THE PRODUCT, EVEN IF PMC HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH LOSSES OR DAMAGES.**

Non-Warranty Service by PMC: If PMC determines that the suspected Defect of the Product is not covered by this Warranty, disposition of the Product will be made pursuant to the terms and conditions of PMC's written estimate on a time and materials basis.

Continuing Warranty for Products Repaired or Replaced under Warranty: Following the repair or replacement of a Product covered by this Warranty, such Product will continue to be subject to the original Warranty for the remainder of original Warranty Period or for three (3) months from the repair or replacement date, whichever is longer.

No Rights Implied: Nothing in the sale, lease or rental of any Product by PMC shall be construed to grant any right, interest or license in or under any patent, trademark, copyright, trade secret or other proprietary right or material owned by anyone; nor does PMC encourage the infringement of same.

Exclusive Warranty: This writing is the final, complete, and exclusive expression of the Warranty covering the Product. Any statements made by PMC, its employees or agents that differ from the terms of this Warranty shall have no effect. It is expressly understood that Customer's acceptance of this Warranty, by performance or otherwise, is upon and subject solely to the terms and conditions hereof, and any additional or different terms and conditions proposed or expressed by Customer or anyone, whether in writing or otherwise, are null and void unless specifically agreed to in writing by an Officer of PMC.



## **SAFETY AND HANDLING**

This chapter contains important information on the safety, handling, and use of your Flush Tank.



***Before using the Flush Tank, carefully read all the technical and safety documentation included in this manual. Pay special attention to the information to know and understand the operation and the conditions of use of the Flush Tank. All of the information is aimed at enhancing User Safety and avoiding possible failures derived from the incorrect use of the Flush Tank.***

***WARNING!*** Presents information to alert of a situation that might cause serious injuries if the instructions are not followed.

***CAUTION!*** Presents information that indicates how to avoid damage to the Proportioner or how to avoid a situation that could cause minor injuries.

***NOTE!*** Is relevant information of a procedure being carried out.

Careful study of this manual will enable the operator to know the characteristics of the Flush Tank and the operating procedures. By following the instructions and recommendations contained herein, you will reduce the potential risk of accidents; you will provide a better opportunity for incident-free operation for a longer time, greater output, and the possibility of detecting and resolving problems quickly and simply.

Keep this Operations Manual for future consultation of useful information at all times. If you lose this manual, ask for a new copy from your PMC Distributor or go online and visit our web site at [www.polymac-usa.com](http://www.polymac-usa.com).



## SAFETY AND HANDLING

The Flush Tank has been designed and built for the application of polyurea chemical systems, polyurethane foam chemical systems, and some two-component epoxy systems.

Always use liquids and solvents that are compatible with the unit. If in doubt, consult your PMC Distributor.

When working with the Flush Tank, it is recommended that the operator wear suitable clothing and elements of personal protection, including, without limitation, gloves, protective goggles, safety footwear, and face masks. Use breathing equipment when working with the Flush Tank in enclosed spaces or in areas with insufficient ventilation. The introduction and follow-up of safety measures must not be limited to those described in this manual. Before using the Flush Tank, a comprehensive analysis must be made of the risks derived from the products to be dispensed, the type of application, and the working environment.



***To prevent possible injury caused by incorrect handling of the raw materials and solvents used in the process, carefully read the Material Safety Data Sheet (MSDS) provided by your supplier.***

***Deal with the waste caused according to current regulations.***

***To avoid damage caused by the impact of pressurized fluids, do not open any connection or perform maintenance work on components subject to pressure until the pressure has been completely eliminated.***

***Use suitable protection when operating, maintaining or being present in the area where the equipment is functioning. This includes, but is not limited to, the use of protective goggles, gloves, shoes and safety clothing and breathing equipment.***

***The equipment includes components that reach high temperatures and can cause burns. Hot parts of the equipment must not be handled or touched until they have cooled completely.***

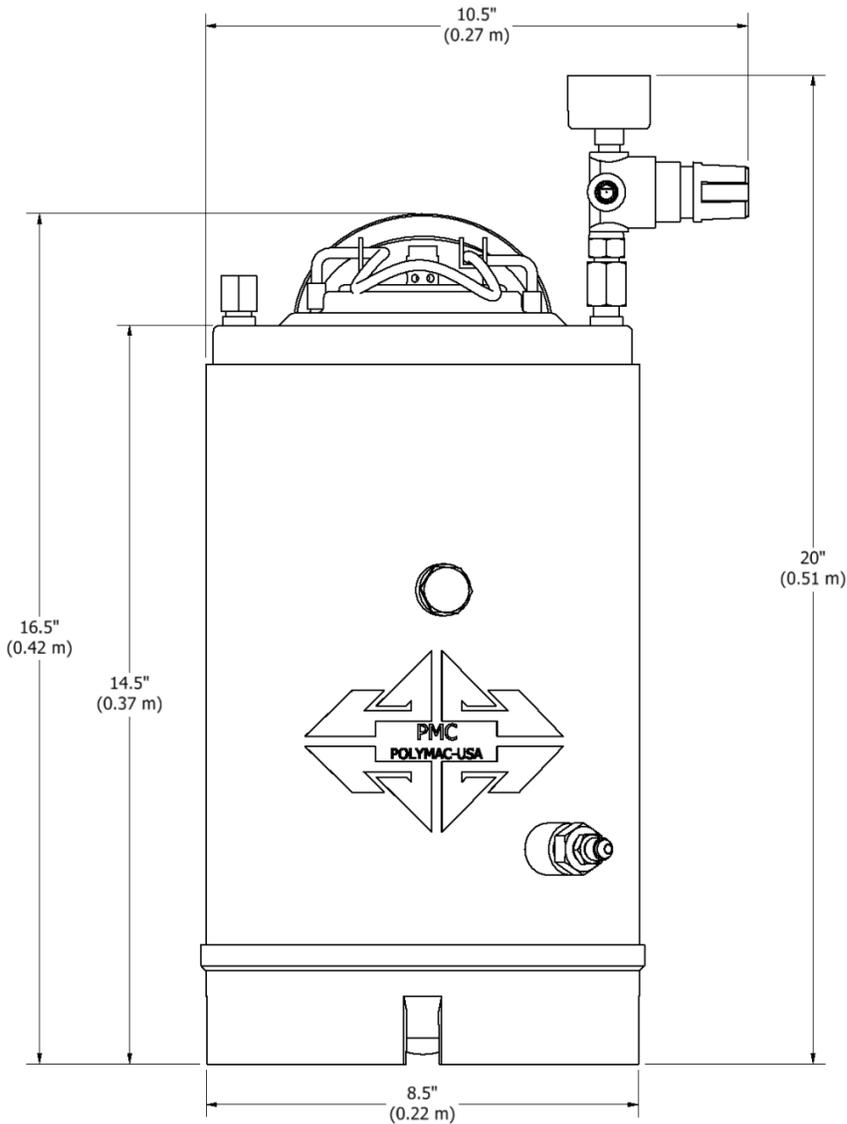
***To prevent serious injury through crushing or amputation, do not work with the equipment without the safety guards installed on the moving parts. Make sure that all the safety guards are correctly reinstalled at the end of the repair or maintenance work of the equipment.***



## CHARACTERISTICS

- Quick and easy installation
- No electricity required
- Pressure and flow control
- Portable system

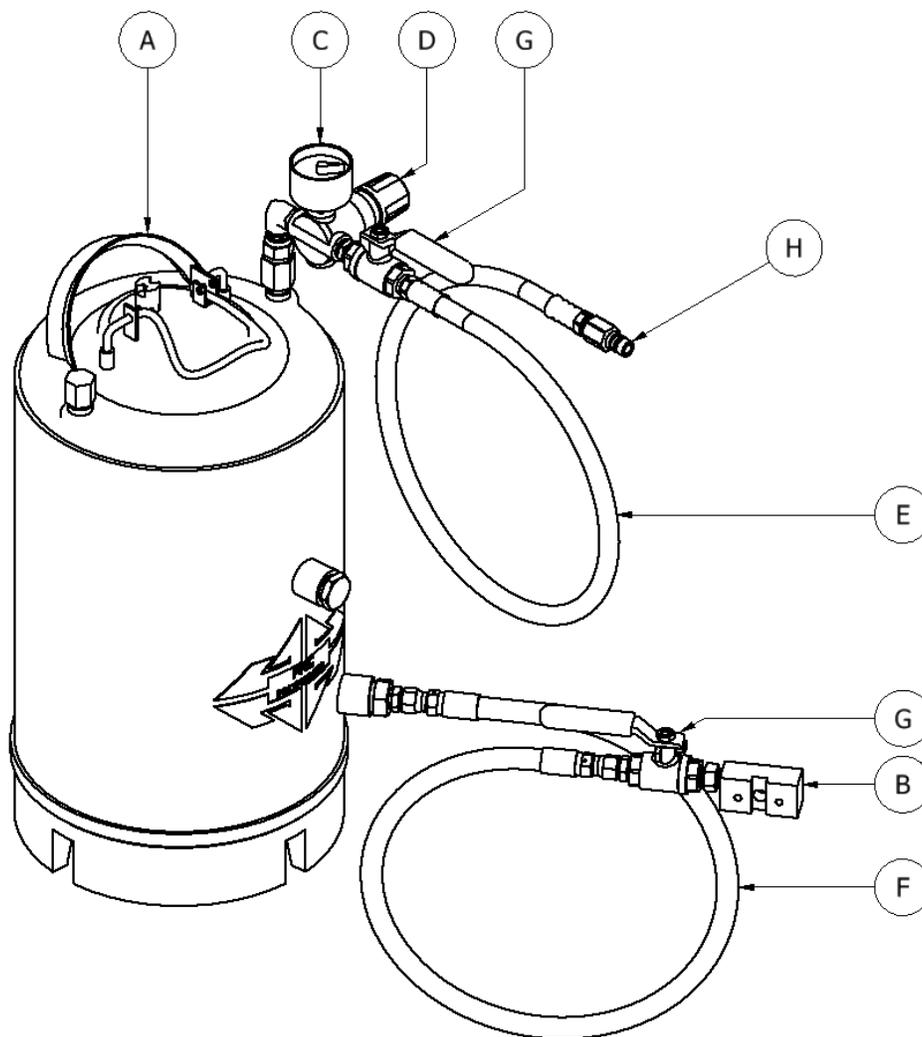
## TECHNICAL SPECIFICATIONS



Max Air Pressure \_\_\_\_\_ 90 psi (6.21 bar)  
Air Hose Connection \_\_\_\_\_ 1/4" Quick Disconnect  
Air Hose Length \_\_\_\_\_ 36 in (0.91 m)  
Solvent Hose Length \_\_\_\_\_ 36 in (0.91 m)



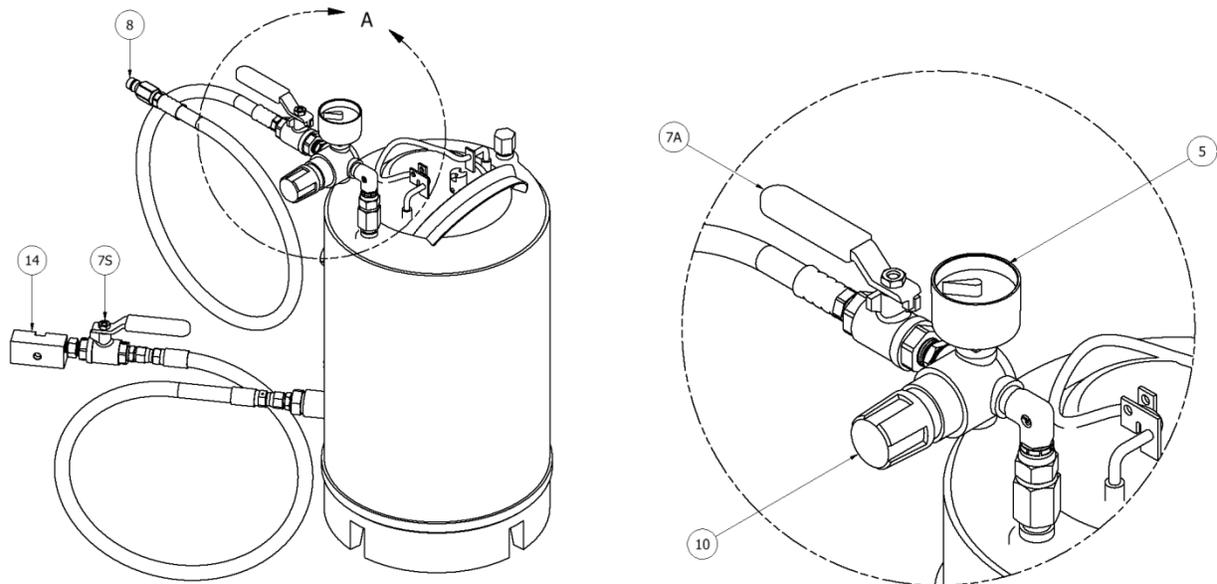
## DESCRIPTION



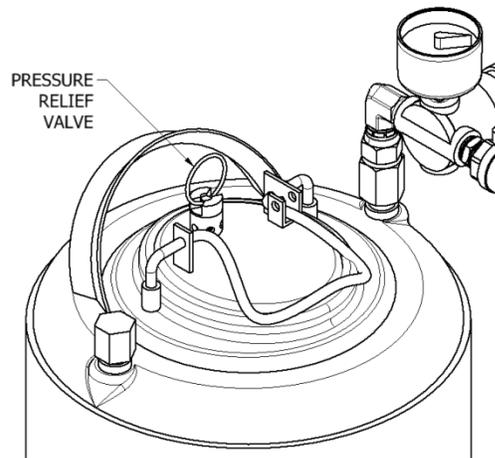
- A. FLUSH TANK
- B. FLUSH COUPLING BLOCK
- C. AIR PRESSURE GAUGE
- D. REGULATOR
- E. AIR HOSE
- F. SOLVENT HOSE
- G. BALL VALVE
- H. 1/4" MALE QUICK DISCONNECT



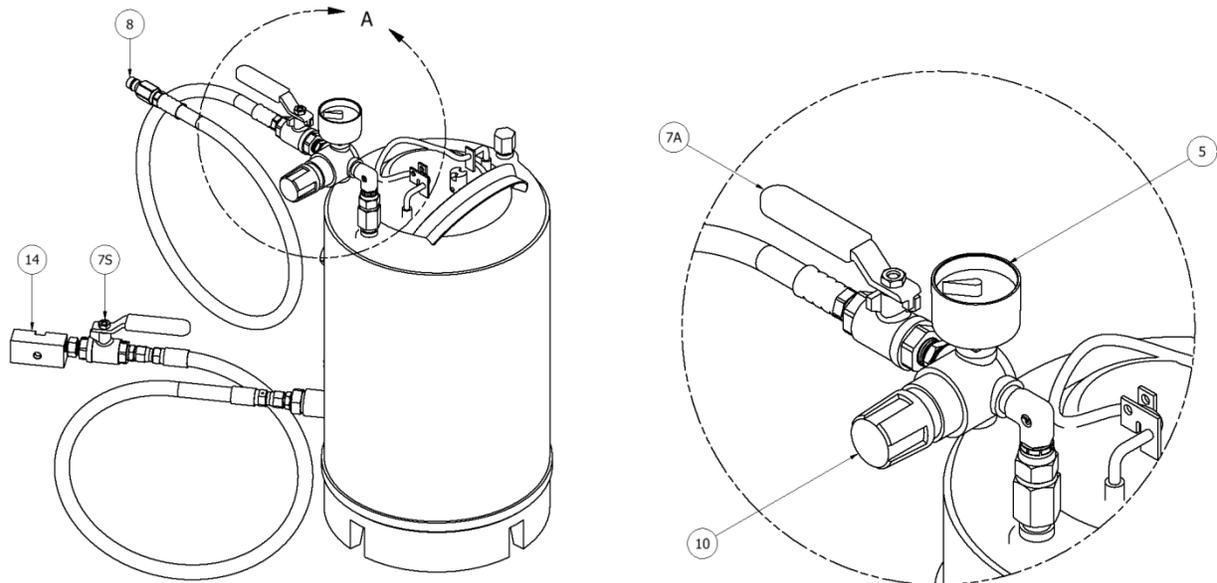
## OPERATION



1. Relieve fluid pressure in the gun (See Gun Manual for proper procedure)
2. If necessary, relieve air pressure in the tank by pulling up on the pressure relief valve.



3. Ensure both the air ball valve (**7A**) and solvent ball valve (**7S**) are in the CLOSED position.
4. Open the lid and fill tank 2/3 full with compatible solvent.
5. Close and secure lid.
6. Rotate the adjusting handle on the regulator (**10**) counterclockwise until it stops.
7. Connect the air supply to the air hose via a 1/4" quick-disconnect fitting (**8**).
8. Slowly open the air ball valve (**7A**).
9. Rotate the adjusting handle of the regulator (**10**) clockwise until the pressure gauge (**5**) indicates the desired amount of pressure in the tank. The maximum working pressure for the tank is 90 PSI (6.21 bar).

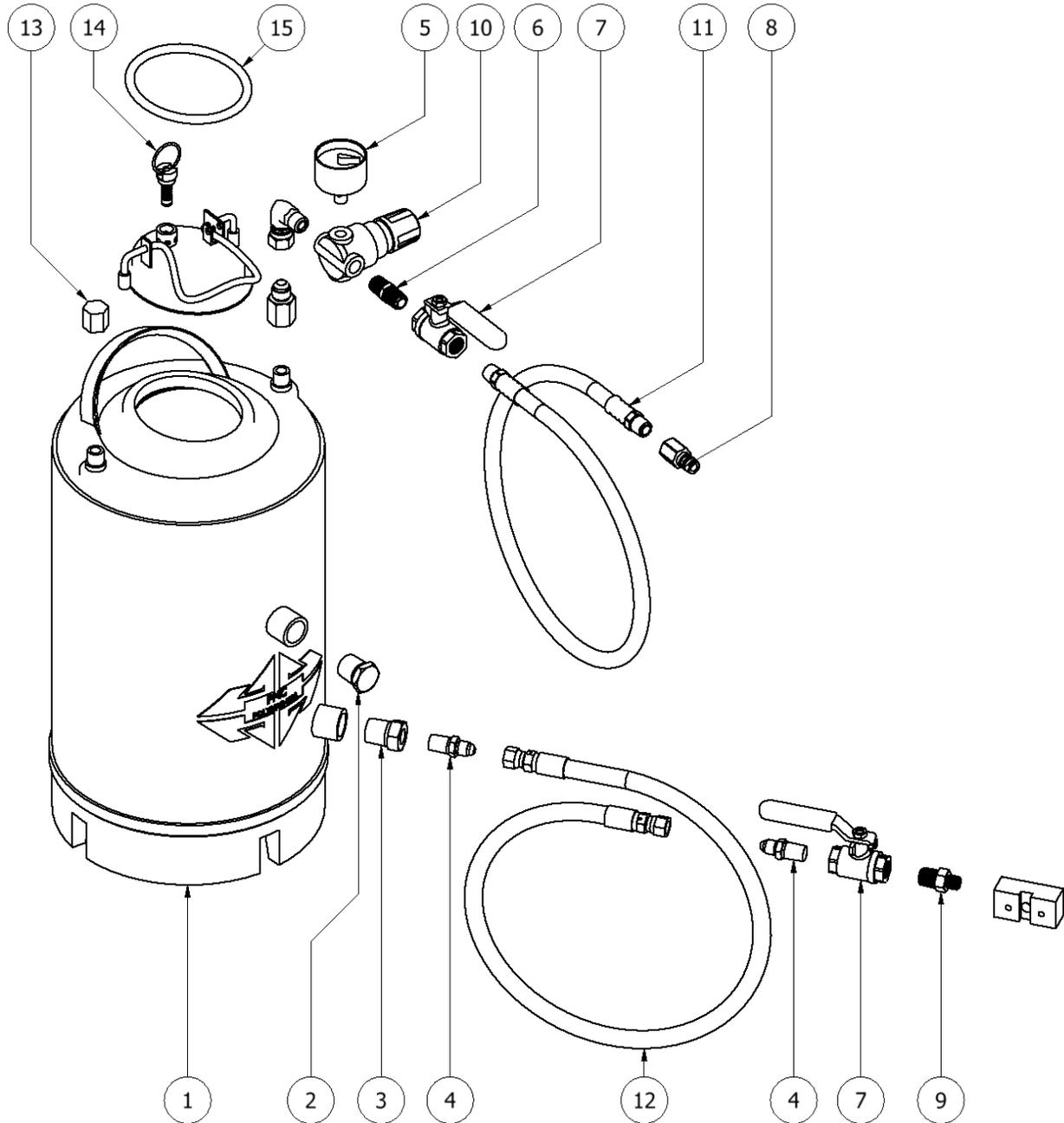


10. Close the air ball valve (**7A**) and disconnect the air supply from the air hose via the 1/4" quick disconnect fitting (**8**).
11. Disconnect the gun coupling block and attach the flush tank coupling block (**14**).
12. Open the solvent ball valve (**7S**).
13. Turn the gun lock to the UNLOCKED position.
14. Direct the gun into a grounded metal pail, ensuring that the flush coupling block (**14**) is maintaining direct contact with the side of the pail. Flush for approximately 10 seconds.
15. Turn the gun lock to the LOCKED position.
16. Close the solvent ball valve (**7S**) and disconnect the flush tank coupling block (**14**) from the gun. Reattach the gun coupling block to the gun.



# PART IDENTIFICATION

## Flush Tank (TL-12)



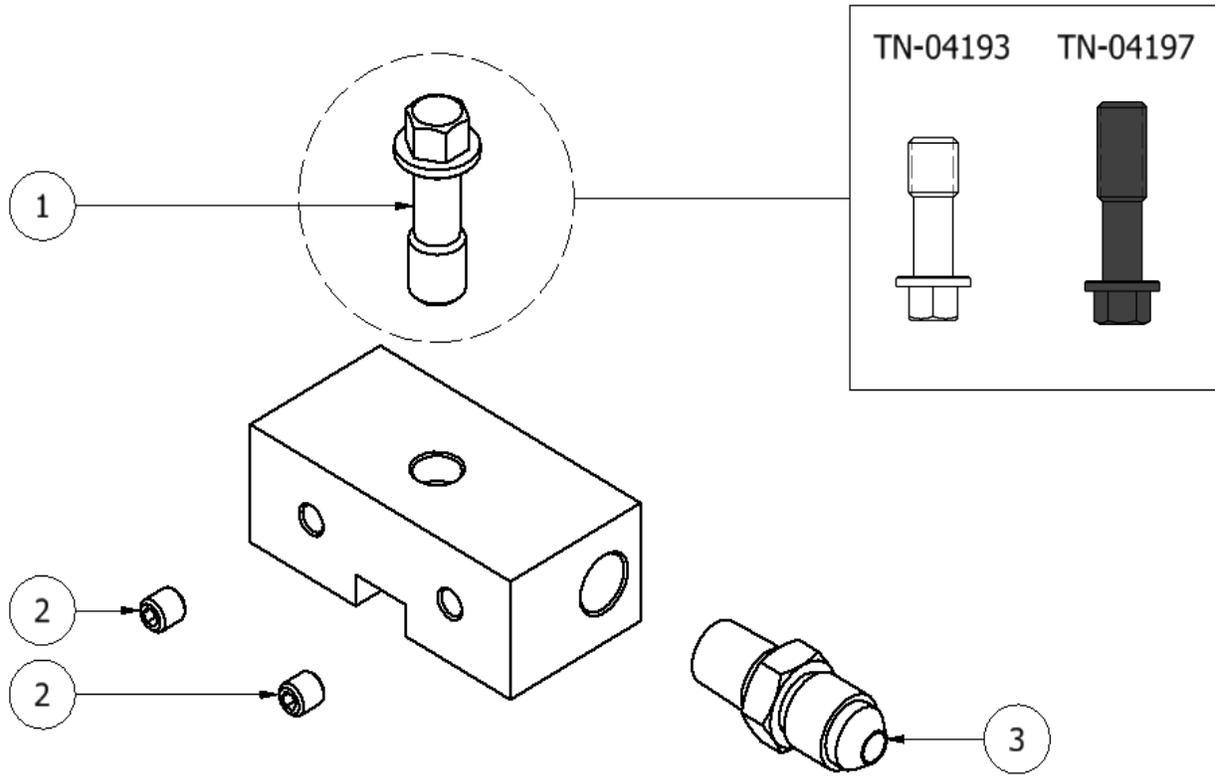


## PART IDENTIFICATION

<b>TL-12 (FLUSH TANK)</b>			
<b>ITEM</b>	<b>QTY</b>	<b>PART NUMBER</b>	<b>DESCRIPTION</b>
1	1	SP-3-1	FLUSH CAN
2	1	HI-05048	DRAIN PLUG
3	1	HI-05050	REDUCER
4	2	HI-05064	FITTING 1/4 NPTM X #4 JIC MALE
5	1	N-00607	AIR PRESSURE GAUGE
6	1	RM-PAR216P4	PARKER BRASS NIPPLE
7	2	HI-05082	BALL VALVE
8	1	GU-04022	QUICK DISCONNECT; MALE
9	1	HI-05095	1/4 X 1/8 HEX NIPPLE
10	1	SUB-03	REGULATOR; 0-100PSI PRESSURE
11	1	SP-3-2	AIR HOSE
12	1	MA-51	HOSE; 36" HIGH PRESSURE
13	1	HI-05076	1/4 NPT CAP
14	1	SP-3-3	PRESSURE RELIEF VALVE 90 PSI
15	1	OR-00049A	O-RING



**Coupling Block Assembly**  
**(HI-05106)**



<b>HI-05106 (Coupling Block Assembly)</b>			
<b>ITEM</b>	<b>QTY</b>	<b>PART NUMBER</b>	<b>DESCRIPTION</b>
1	1	TN-04193	COUPLING BLOCK MOUNTING SCREW
	1	TN-04197	COUPLING BLOCK MOUNTING SCREW
2	2	TN-04187	SHCS 10-32 X 3/16 PORT PLUG
3	1	HI-05078	FITTING 1/8 X #4 JIC



## **MANUAL REVISIONS**

<b>Revision</b>	<b>Date</b>	<b>Changes</b>	<b>Approved</b>
<b>1.0</b>		Initial release of TL-12 Manual	Vadams