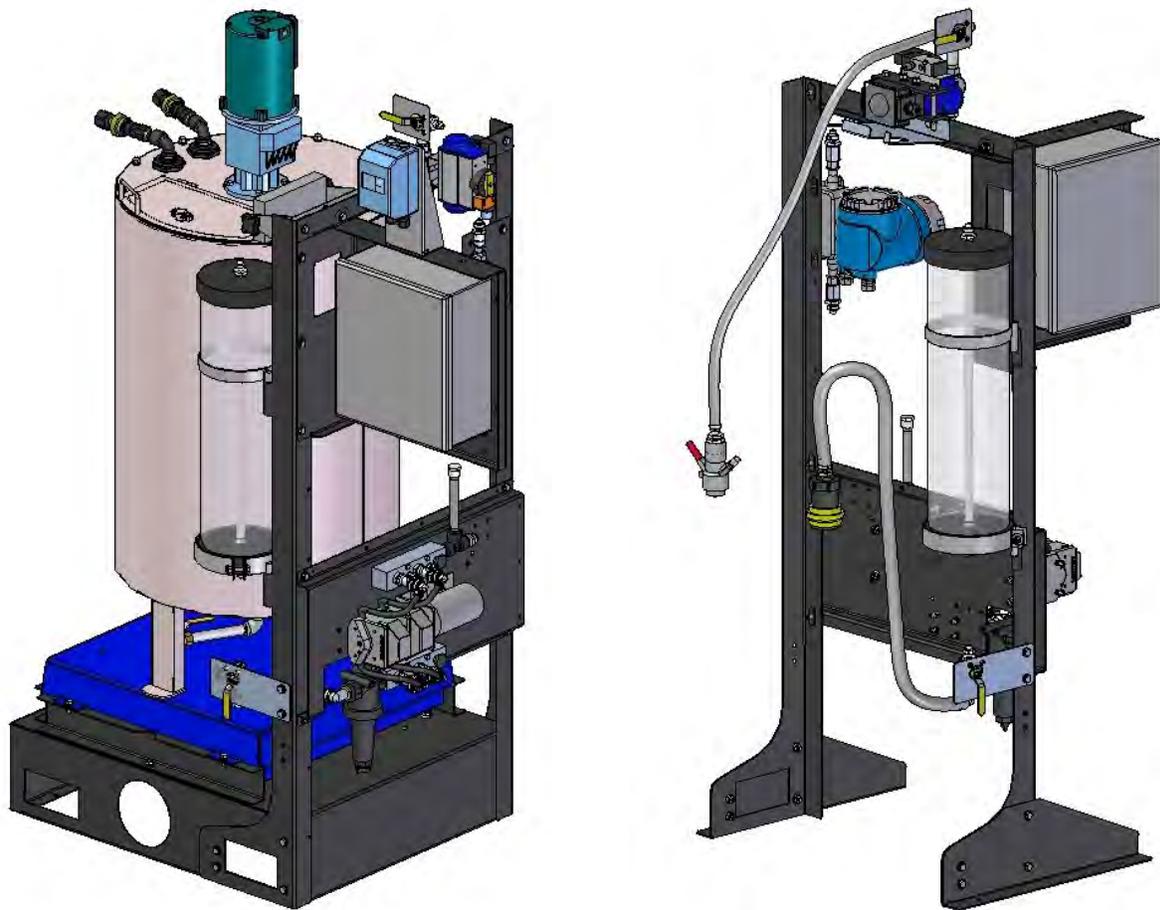


COMMERCIAL PUMP STAND

Operators Manual



Document: TD-09-06-1008

Revision: A



INTRODUCTION

Thank you for choosing USC, LLC for your equipment needs. We appreciate your business and will work diligently to ensure that you are satisfied with your choice.

OVERVIEW

The purpose of this manual is to provide you with the basic information needed to operate and maintain the Commercial Pump Stand. It does not hold USC, LLC liable for any accidents or injuries that may occur.

OPERATOR RESPONSIBILITIES

As the purchaser/owner/operator of this equipment and control system, you have an obligation to install, operate, and maintain the equipment in a manner that minimizes the exposure of people in your care to any potential hazards inherent in using this equipment. It is critical that the owner of this equipment:

- Has a clear and documented understanding of the process this machine is being used in and of any resulting hazards or special requirements arising from this specific application.
- Allow only properly trained and instructed personnel to install, operate, or service this equipment.
- Maintain a comprehensive safety program involving all who work with this machine and other associated process equipment.
- Establish clear areas of staff responsibility (e.g. operation, setup, sanitation, maintenance, and repairs).
- Provide all personnel with necessary safety equipment.
- Periodically inspect the equipment to insure that the doors, covers, guards, and safety devices are in place and functioning, that all safety instructions and warning labels are intact and legible, and that the equipment is in good working order.
- In addition to the operating instructions, observe and enforce the applicable legal and other binding regulations, national and local codes.

As the person with the most to gain or lose from working safely, it is important that you work responsibly and stay alert. By following a few simple rules, you can prevent an accident that could injure or kill you or a co-worker.

TABLE OF CONTENTS

| <u>Section</u> | <u>Contents</u> | <u>Page #</u> |
|-----------------------|---|----------------------|
| Section A | Safety Instructions..... | 5 |
| Section B | Installation | 12 |
| Section C | Mechanical Operation..... | 15 |
| | U-Tote Pump Stand Overview..... | 15 |
| | Standard Pump Stand Overview | 16 |
| | Mix Tank, Calibration Tube | 17 |
| | Peristaltic Pump Heads & Pump Motor | 18 |
| | Flow Meters, Pump Stand Valves | 19 |
| Section D | Electrical Operation | 22 |
| | Troubleshooting | 22 |
| Section E | Maintenance | 23 |
| Section F | Storage..... | 25 |
| Section G | Mechanical Drawings | 26 |
| Section H | Limited Warranty..... | 59 |

SAFETY INSTRUCTIONS

SECTION A

Every year accidents in the work place maim, kill and injure people. Although it may be impossible to prevent all accidents, with the right combination of training, operating practices, safety devices, and operator vigilance, the number of accidents can be significantly reduced. The purpose of this section is to educate equipment users about hazards, unsafe practices, and recommended hazard avoidance techniques.

SAFETY WORDS AND SYMBOLS

It is very important that operators and maintenance personnel understand the words and symbols that are used to communicate safety information. Safety words, their meaning and format, have been standardized for U.S. manufacturers and published by the American National Standards Institute (ANSI). The European Community (E.C.) has adopted a different format based on the International Standards Organization (I.S.O.) and applicable machinery directives. Both formats are presented below. Graphic symbols are not standardized, but most manufacturers will use some variation of the ones seen in this manual.



Indicates an imminently hazardous situation which, if not avoided, **will** result in death or serious injury.



Indicates a potentially hazardous situation which, if not avoided, **could** result in death or serious injury.



Indicates a potentially hazardous situation which, if not avoided, **may** result in minor or moderate injury and/or property damage.



Provides additional information that the operator needs to be aware of to avoid a potentially hazardous situation.



Mandatory Lockout Power Symbol. Disconnect, lockout and tagout electrical and other energy sources before inspecting, cleaning or performing maintenance on this panel.



International Safety Alert Symbol. The exclamation point (!) surrounded by a yellow triangle indicates that an injury hazard exists. However, it does not indicate the seriousness of potential injury. The exclamation point (!) is also used with the DANGER, WARNING and CAUTION symbols so the potential injury is indicated.



Electrocution Hazard Symbol. This symbol indicates that an electrocution hazard exists. Serious injury or death could result from contacting high voltage.



International Electrocution Hazard. This symbol indicates that an electrocution hazard exists. Serious injury or death could result from contacting high voltage.



Mandatory Read Manual Action Symbol. (I.S.O. format) This symbol instructs personnel to read the Operators Manual before servicing or operating the equipment.



Mandatory Read Manual Action Symbol. This symbol instructs personnel to read the Operators Manual before servicing or operating the equipment.

NOTICE

Notice is used to notify people of important installation, operation or maintenance information which is not hazard related.

LOCKOUT / TAGOUT PROCEDURES

Lockout/Tagout is the placement of a lock/tag on an energy isolating device in accordance with an established procedure. When taking equipment out of service to perform maintenance or repair work, always follow the lockout/tagout procedures as outlined in ANSI Z344.1 and/or OSHA Standard 1910.147. This standard “requires employers to establish a program and utilize procedures for affixing appropriate lockout devices or tagout devices to energy isolating devices and to otherwise disable machines or equipment to prevent unexpected energizing, start-up, or release of stored energy in order to prevent injury to employees.”

HAZARD REVIEW

Electrocution Hazard



Electrocution accidents are most likely to occur during maintenance of the electrical system or when working on or near exposed high voltage wiring. This hazard does not exist when the electrical power has been disconnected, properly locked, and tagged out.

Automatic Start Hazard



The equipment may be controlled by an automated system and may start without warning. Failure to properly disconnect, lockout, and tagout all energy sources of remotely controlled equipment creates a very hazardous situation and could cause injury or even death. PLEASE STAY CLEAR AND BE ALERT.

COMMERCIAL PUMP STAND

YOU are responsible for the **SAFE** operation and maintenance of your USC, LLC equipment . **YOU** must ensure that you and anyone else who is going to operate, maintain, or work around the treater be familiar with the operating and maintenance procedures and related **SAFETY** information contained in this manual. This manual will take you step-by-step through your working day and alert you to good safety practices that should be adhered to while operating the treater.

Remember, **YOU** are the key to safety. Good safety practices not only protect you, but also the people around you. Make these practices a working part of your safety program. Be certain that **EVERYONE** operating this equipment is familiar with the recommended operating and maintenance procedures and follows all the safety precautions. Most accidents can be prevented. Do not risk injury or death by ignoring good safety practices.

- Equipment owners must give operating instructions to operators or employees before allowing them to operate the machine, and at least annually thereafter per OSHA (Occupational Safety and Health Administration) regulation 1928.57.
- The most important safety device on this equipment is a **SAFE** operator. It is the operator's responsibility to read and understand **ALL** Safety and Operating instructions in the manual and to follow them. All accidents can be avoided.
- A person who has not read and understood all operating and safety instructions is not qualified to operate the machine. An untrained operator exposes himself and bystanders to possible serious injury or death.
- Do not modify the equipment in any way. Unauthorized modification may impair the function and/or safety and could affect the life of the equipment.
- Think SAFETY! Work SAFELY!

GENERAL SAFETY

1. Read and understand the Operator's Manual and all safety labels before operating, maintaining, adjusting or unplugging the seed treater .
2. Only trained persons shall operate the seed treater. An untrained operator is not qualified to operate the machine.
3. Have a first-aid kit available for use should the need arise, and know how to use it.



COMMERCIAL PUMP STAND

4. Provide a fire extinguisher for use in case of an accident. Store in a highly visible place.
5. Do not allow children, spectators or bystanders within hazard area of machine.
6. Wear appropriate protective gear. This includes but is not limited to:
 - A hard hat
 - Protective shoes with slip resistant soles
 - Protective goggles
 - Heavy gloves
 - Hearing protection
 - Respirator or filter mask
7. Place all controls in neutral or off, stop motor, and wait for all moving parts to stop. Then disable power source before servicing, adjusting, repairing, or unplugging.
8. Review safety related items annually with all personnel who will be operating or maintaining the Equipment.



OPERATING SAFETY:

1. Read and understand the Operator's Manual and all safety labels before using.
2. Disconnect and disable electrical supply completely and wait for all moving parts to stop before servicing, adjusting, repairing or unplugging.
3. Clear the area of bystanders, especially children, before starting.
4. Be familiar with the machine hazard area. If anyone enters hazard area, shut down machine immediately. Clear the area before restarting.
5. Keep hands, feet, hair and clothing away from all moving and/or rotating parts.
6. Stay away from overhead obstructions and power lines during operation and transporting. Electrocutation can occur without direct contact.
7. Do not operate machine when any guards are removed.
8. Inspect welds and repair if needed.

COMMERCIAL PUMP STAND

PLACEMENT SAFETY

1. Move only with the appropriate equipment
2. Stay away from overhead power lines when moving the treater. Electrocution can occur without direct contact.
3. Be familiar with machine hazard area. If anyone enters hazard areas, shut down machine immediately. Clear the area before restarting.
4. Operate the treater on level ground free of debris. Anchor the treater to prevent tipping or upending.



Before placement of the pump stand, be sure that ground is reasonably level. The pump stand may topple or work improperly if the ground is too uneven, damaging the equipment and/or causing personal injury.

MAINTENANCE SAFETY

1. Review the Operator's Manual and all safety items before working with, maintaining or operating the Equipment .
2. Place all controls in neutral or off, stop motors, disable power source, and wait for all moving parts to stop before servicing, adjusting, repairing or unplugging.
3. Follow good shop practices:
Keep service area clean and dry.
Be sure electrical outlets and tools are properly grounded.
Use adequate light for the job at hand.
4. Keep hands, feet, hair and clothing away from all moving and/or rotating parts.
5. Clear the area of bystanders, especially children, when carrying out any maintenance and repairs or making any adjustments.
6. Before resuming work, install and secure all guards when maintenance work is completed.
7. Keep safety labels clean. Replace any sign that is damaged or not clearly visible.



SAFETY LABELS

1. Keep safety labels clean and legible at all times.
2. Replace safety labels that are missing or have become illegible.
3. Replaced parts that displayed a safety sign should also display the current sign.
4. Replacement safety labels are available. Contact USC at (785) 431-7900 .

How to Install Safety Labels:

- Be sure that the installation area is clean and dry.
- Be sure temperature is above 50°F (10°C).
- Decide on the exact position before you remove the backing paper.
- Remove the smallest portion of the split backing paper.
- Align the sign over the specified area and carefully press the small portion with the exposed sticky backing in place.
- Slowly peel back the remaining paper and carefully smooth the remaining portion of the sign in place.
- Small air pockets can be pierced with a pin and smoothed out using the piece of sign backing paper.



Located on the USC equipment you will find safety labels. Always be sure to read and follow all directions on the labels.



Part # 09-02-0001



Part # 09-02-0002



Guards provided with USC equipment are to remain in place during operation.

**SECTION
B**

INSTALLATION



HIGH VOLTAGE ~ Always disconnect the power source before working on or near the control panel or lead wires.



HIGH VOLTAGE ~ Use insulated tools when making adjustments while the controls are under power.

NOTICE

Permanent installation may require additional electrical cords, chemical tubing, and air lines, since each installation is unique.

PUMP STAND SET - UP

The following steps outline the initial set-up of your Commercial Pump Stand:

1. Clear the area of bystanders, especially small children, before moving.
2. Be sure there is enough clearance from overhead obstructions and power lines or other equipment to move the pump stand(s) into its working position.
3. Using a forklift, place the pump stand in the desired position on a level surface.

NOTICE

USC highly recommends that the pump stand be set up inside a building or any covered structure to protect the machine from weathering.

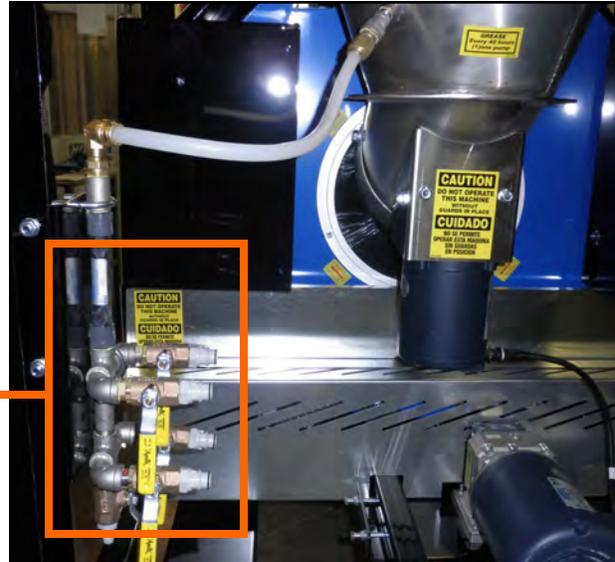
4. Inspect machine thoroughly for screws, bolts, fittings, etc. which may have come loose during shipping.
5. The pump stand(s) should be placed on level ground close to the seed treater.

COMMERCIAL PUMP STAND

PUMP STAND SET - UP

6. Attach the chemical tubing from the pump stand(s) to the atomizer plumbing on the seed treater (right). Additional tubing can be added or removed to accommodate your set-up.

6



7. Attach the communication cable from the manual or automated pump stand(s) control panel to the applicable port on the Main Control Panel (below) and the Treater Control Panel. (see page 14)

AUTOMATED MAIN CONTROL PANEL

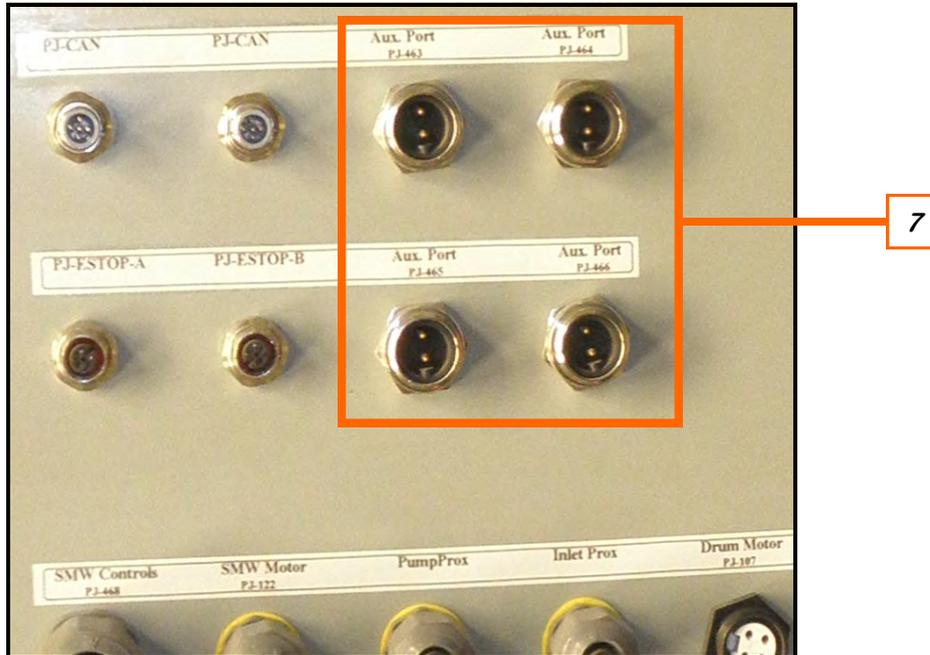


7

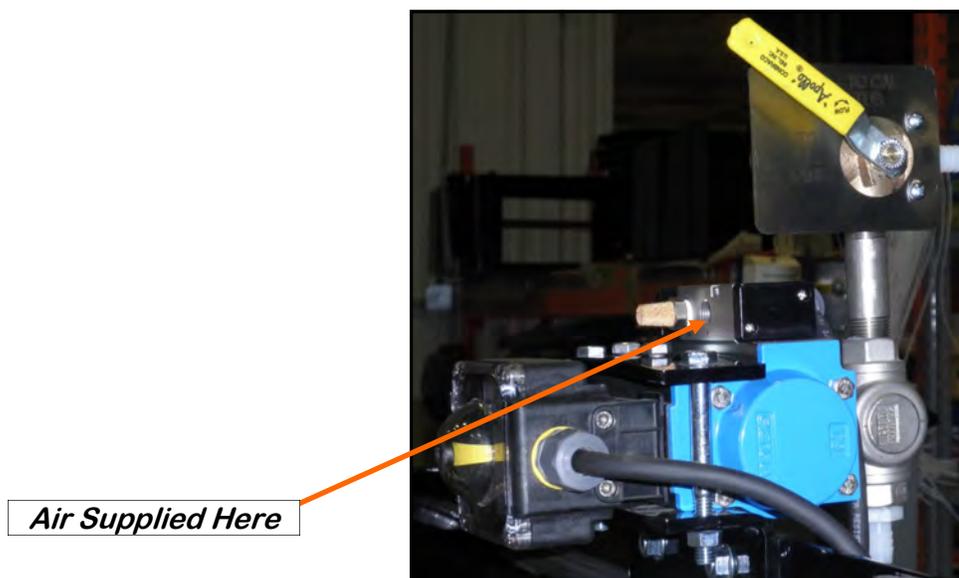
COMMERCIAL PUMP STAND

PUMP STAND SET - UP

TREATER CONTROL PANEL

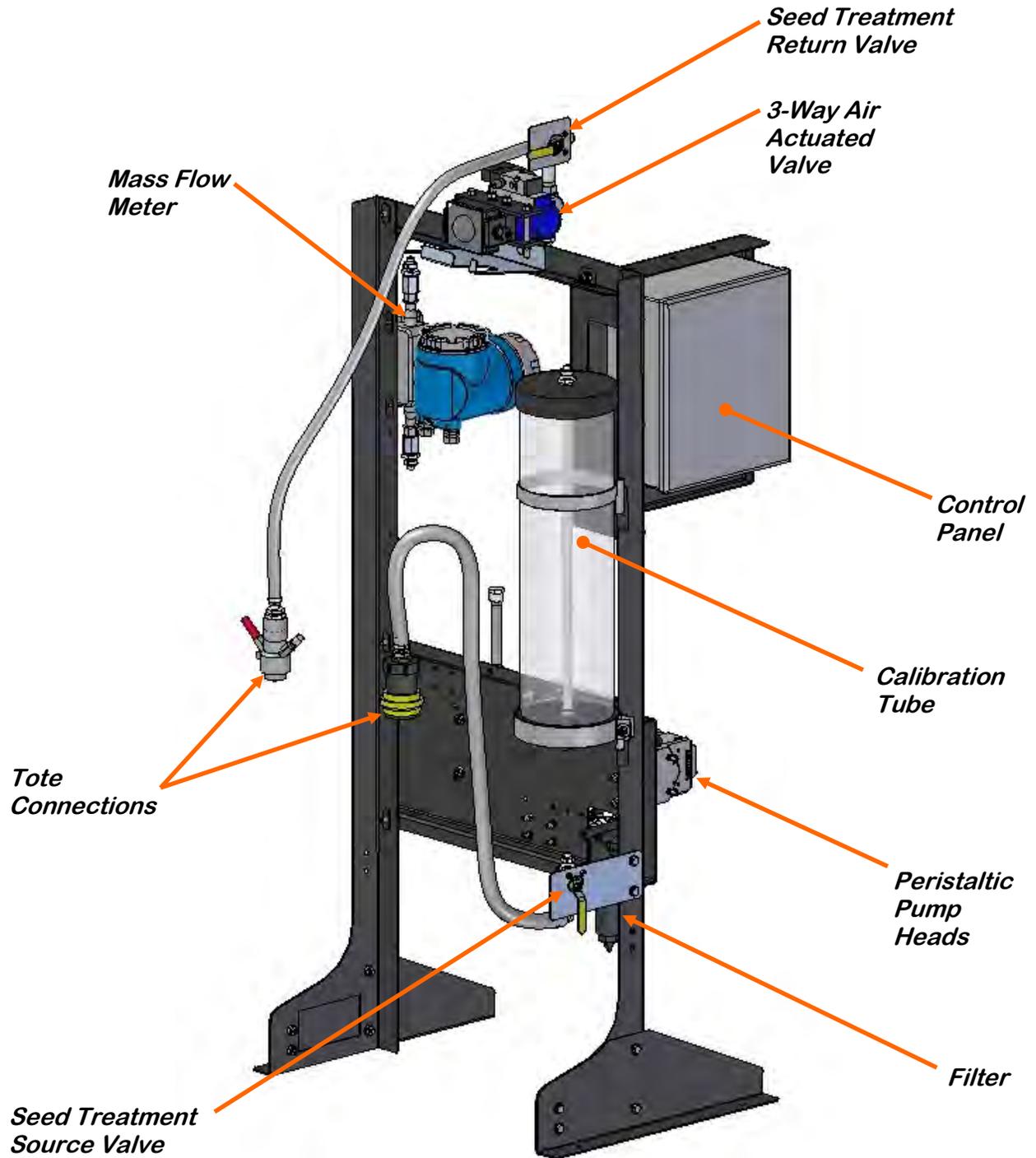


- 8. It is required that the air supply have an in-line customer supplied air dryer to protect the air system from contamination. Supply approximately 100 - 110 pounds of air pressure from the dryer to the port on the air actuated 3-way valve located on the pump stand frame behind the electric control panel.

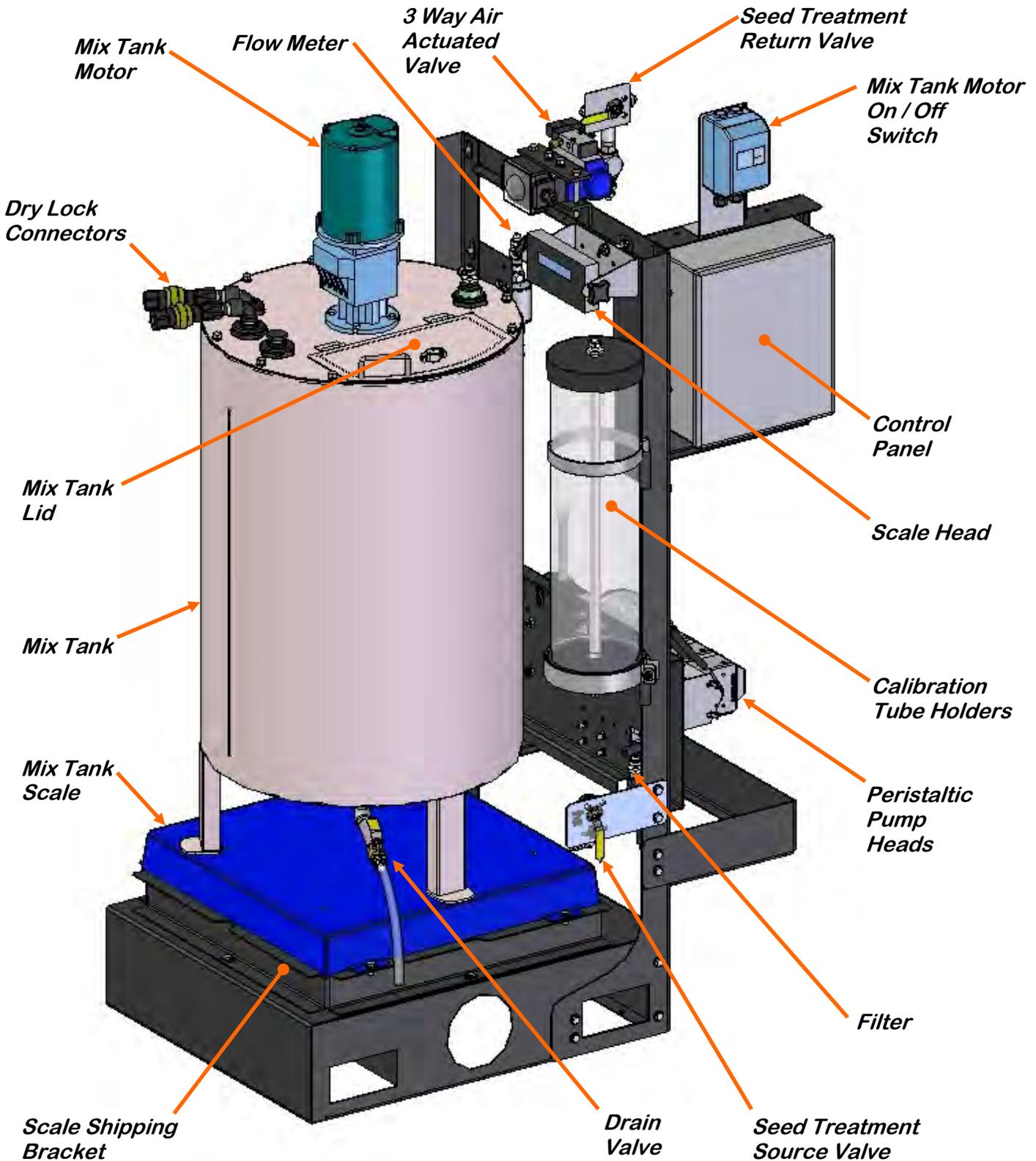


MECHANICAL OPERATION

U - TOTE PUMP STAND OVERVIEW



STANDARD PUMP STAND OVERVIEW



COMMERCIAL PUMP STAND

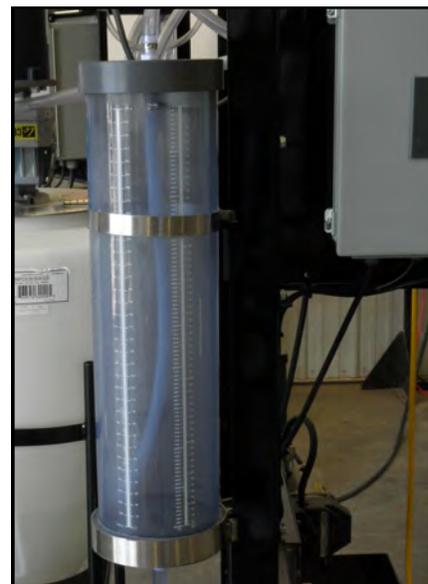
MIX TANK

The Commercial Pump Stand is equipped with a fully modular control panel that is controlled from the Main Control Panel HMI screen. This pump stand includes a choice of 30 or 60 gallon stainless steel mix tank. This chemical mix tank will have electric drive agitation that is turned on or off at the pump stand with a manual switch. The agitator should be running at all times when treatment is present in the mix tank to keep the chemical mixed and in a suspended state. The tank is equipped with a shut-off, drain plug, and drain valve located on the bottom. The top of the tank also includes 3 extra ports which the operator can use to direct fill into the tank (see below).



CALIBRATION TUBE

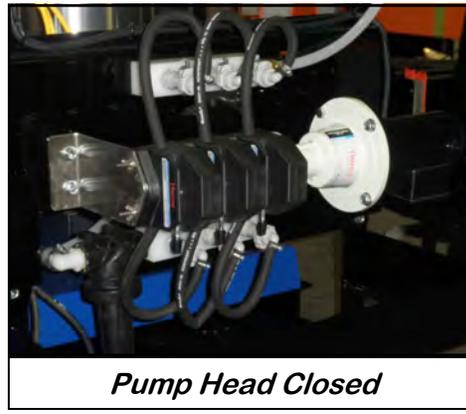
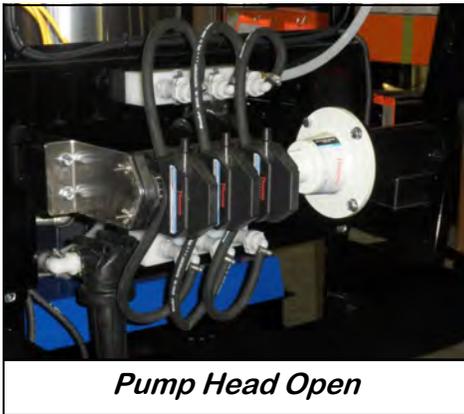
The Commercial Pump Stand is equipped with an optional calibration tube which is used to check the liquid flow rate. The calibration tube measures in ounces, on a 0-340 scale and millimeters on a 0-10000 scale. Manual valves direct liquid from different areas to keep all liquid contained. This creates a closed chemical system so that the operator can manually check the calibration of the chemical flow rate without handling any of the chemical.



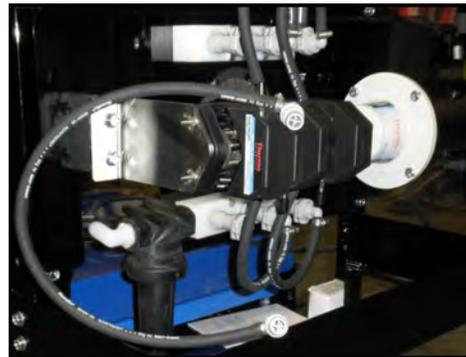
PERISTALTIC PUMP HEADS AND MOTOR

The Commercial Pump Stand utilizes a variable speed pump motor and special noprrene pump tubing for liquid metering. The pump comes equipped with either 1, 2 or 3 peristaltic pump heads. Liquid will only come into contact with the inside diameter of the pump tubing and not the pump. This allows for easy cleanup and less maintenance of the pump.

To open the pump head, lift the lever upward. Place the pump tubing inside the pump head so it fits inside the notches and above the rollers. Lower the lever back down to close the pump head, clamping the hose inside the head. Wear or fatiguing of the tubing within the pump head due to compression is normal. When tubing becomes worn or chemical rates begin to slow down, open the pump head and move the tubing to a different position. If the entire piece of tubing becomes worn, simply replace with a new section. When not using the pump stand for several days or when storing, open the pump head and remove the tubing to prevent any extra compression.



If a very low rate is needed, a section of tubing can be removed to force the pump motor to run at a higher speed. This allows for a more consistent flow rate. When removing the tubing, uncouple it from the manifold (below, right). If the tubing is unclamped from the pump head but left coupled in the manifold (below, left), the pump will suck air and cause flow rates to be very inconsistent.



COMMERCIAL PUMP STAND

FLOW METERS

Each Commercial Pump Stand comes with either a volumetric or mass flow meter. A flow meter is used to perform real-time chemical flow adjustments and monitoring without the operator having to handle the chemical. The flow meter reading will be displayed on the HMI touch screen and can be set to read in oz/min or ml/min.



Volumetric Flow Meter



Mass Flow Meter

PUMP STAND VALVES

SEED TREATMENT SOURCE VALVE: This valve controls where the pump is drawing liquid from. It allows liquid to be pulled from either the bottom of the mix tank or the calibration tube. This valve is only present when a Calibration tube is mounted on the pump stand.



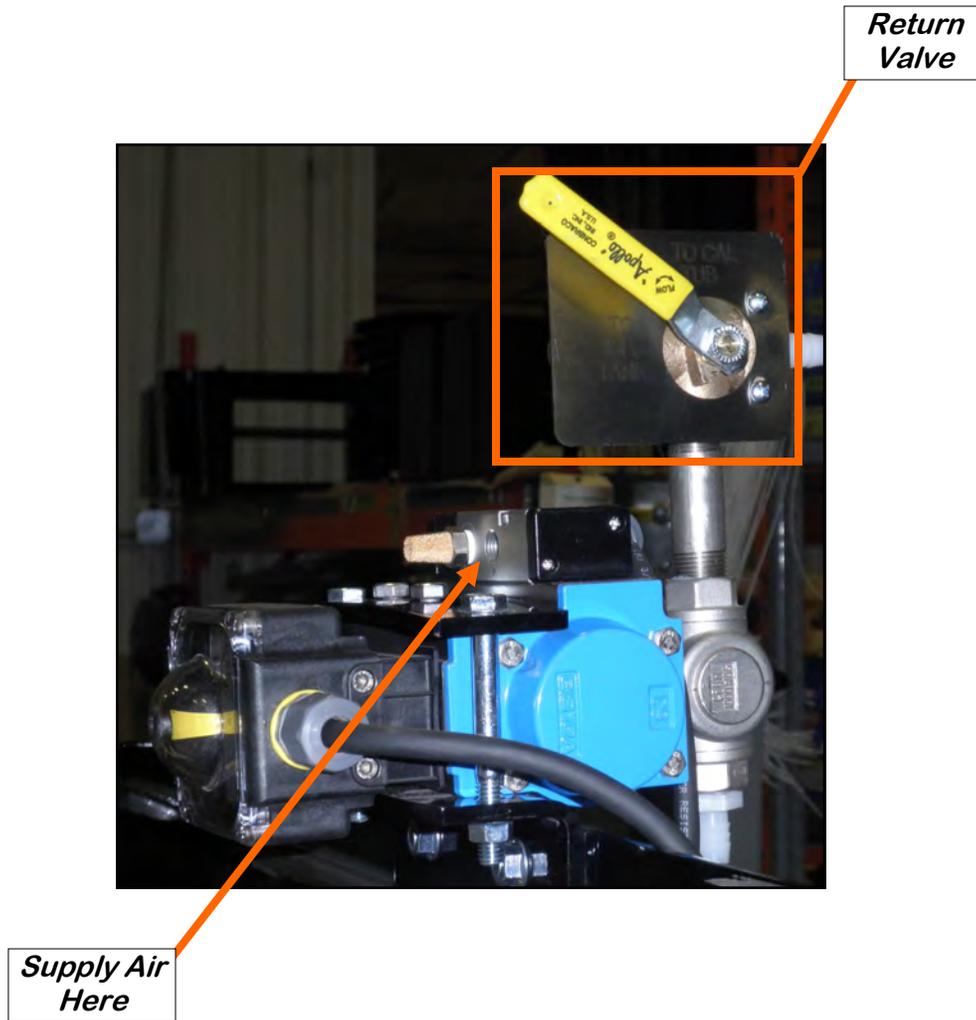
Drawing chemical from the bottom of the Mix Tank



Drawing chemical from the bottom of the Calibration Tube

PUMP STAND VALVES

SEED TREATMENT RETURN VALVE: This valve directs the liquid coming from the recirculation side of the Air Actuated 3-Way Valve to either fill the Calibration Tube or return to the Mix Tank.



AIR ACTUATED 3-WAY VALVE: This valve is controlled from the touch screen and will automatically actuate during normal operation. An internal spring holds the valve in the recirculation position so that when the valve is not actuated, the chemical will be directed to flow back to the Mix Tank. When the valve is actuated, the supplied air pressure will override the spring and move the valve to the PROCESS position. Chemical flow will then be directed towards the treater's atomizer chamber.

COMMERCIAL PUMP STAND

PUMP STAND VALVES

Proper calibration of the liquid system is critical to achieve a proper granular/chemical mixture. For information on pump calibration and flow meter calibration to determine liquid flow rate see document number: **TD-09-06-1041, U-Treat v3.0.00 Automation.**

Emptying the remaining liquid can be done by using the reverse function on the control panel. This will pump liquid back into the mix tank. Then drain the remaining liquid into a suitable container. Clean water should be pumped through the calibration tube and mix tank when finished.



WARNING Always dispose of chemical or diluted chemical according to your local, state, and federal regulations.



NOTICE Only you, the operator, can determine the length of time required to completely rinse all chemical residue from the tank and plumbing system.

**SECTION
D**

ELECTRICAL OPERATION



HIGH VOLTAGE ~ Always disconnect the power source before working on or near the control panel or lead wires.



HIGH VOLTAGE ~ Use insulated tools when making adjustments while the controls are under power.



AUTHORIZED PERSONNEL only shall work on the control panel. Never allow anyone who has not read and familiarized themselves with the owner's manual to open or work on the control panels.

This section provides a general overview and description of the operator controls for the Commercial Pump Stand.

For information on pump calibration, flow meter calibration and all other HMI screen functions, see document number: **TD-09-06-1041 = U-Treat v3.0.00 Automation.**

General Panel Descriptions

This system consists of three plug connected panels, one hard wired panel and two more optional plug connected panels:

- The Commercial Pump Stand Panel is a plug connected enclosure that is located on each pump stand frame. This panel connects the pump stand electrical components to the treater or Automated Main Control Panel. Each pump stand has two standard 110V plugs. One for the manual ON/OFF switch controlling the mix tank motor and one for the pump stand control panel.

TROUBLESHOOTING

Below is a table describing the most frequent problems and solutions with the USC Commercial Pump Stand. For further assistance, contact USC at (785) 431-7900.

| Problem | Possible Cause | Solution |
|----------------------|---|---|
| Pump is fluctuating. | <ol style="list-style-type: none"> 1. Restriction in tubing 2. Filter is plugged or missing gasket. | <ol style="list-style-type: none"> 1. Flush tubing and check filter for any restrictions. 2. Clean filter and check for gasket. |

Proper maintenance of the Commercial Pump Stand is critical for peak performance, reliability and accuracy of this system. The following is a guideline for the type of maintenance and servicing that should be performed on this unit. Your environment and uses may require additional maintenance and service beyond this list to assure a reliable and safe unit. The operator of this unit has ultimate responsibility to identify areas of concern and rectify them before they become a hazard or safety issue. There is no substitute for a trained, alert operator.



Do not put this unit into operation with any questionably maintained parts. Poor performance or a hazard may occur.

ELECTRICAL PANEL

- Check and tighten wire connections.
- Check quick connects on bottom of control panel.
- Check to see if starters and/or overloads are tripped.
- Check to see if relays, timers and/or breakers are tripped.
- Check quick connects on end of Auxiliary cord.
- Check and tighten wire connections.
- Check relay and fuse holder.
- Check power cords for cuts or frays and ensure ground is present.

MIX TANK

- Check motor.
- Check for any play in the mix tank shaft.
- Check valves, fittings, and plug on bottom of tanks for leaks.
- Check chemical tubing for abnormal wear.

PUMPS - PLUMBING - FLOW METER

1. Check pump in forward and reverse.
2. Make sure pump heads open and close smoothly.
3. Inspect tubing for uneven wear. Replace pump tubing often to ensure high flow rates can be achieved.
4. Check air actuated 3-Way valve. Clean brass filter if necessary.
5. Make certain the inside of the mix tank is completely drained of chemical residue.
6. Pump clean water through all areas of the plumbing including the mix tank, valves, and flow meter.
7. Remove and clean the filter.
8. Open all drain points, valves, and filter to let as much of the water drain as possible.
9. Disconnect power to the flow meter.
10. If your pump stand is equipped with a volumetric flow meter, remove it from the machine for additional cleaning.

A. Pre - Mix a solution of 90% water and 10% distilled white vinegar.

NOTICE

Only use the vinegar and water solution mixed in these proportions to clean the flow meter. Use of any other cleaners, especially cleaners containing harsh chemicals may permanently damage the sensors and seals inside the flow meter.

- B. Use a size - matched circular brush with soft plastic bristles. Dip the brush in the solution and gently move it up and down in the measuring pipe to avoid damaging the measuring pipe and sensor electrodes.
- C. Re-repeat brushing with fresh fluid until measuring pipe is visually clean.
- D. Flush the flow meter inside and out with clean water to remove any of the cleaning solution residue.



When storing the Commercial Pump Stand for long periods of time, the following procedure must be followed to reduce the chance of rust, corrosion and fatigue of the treater. You can also use these steps when storing the machine for the winter.



A dust mask and protective rubber gloves shall be used when cleaning the pump stand.

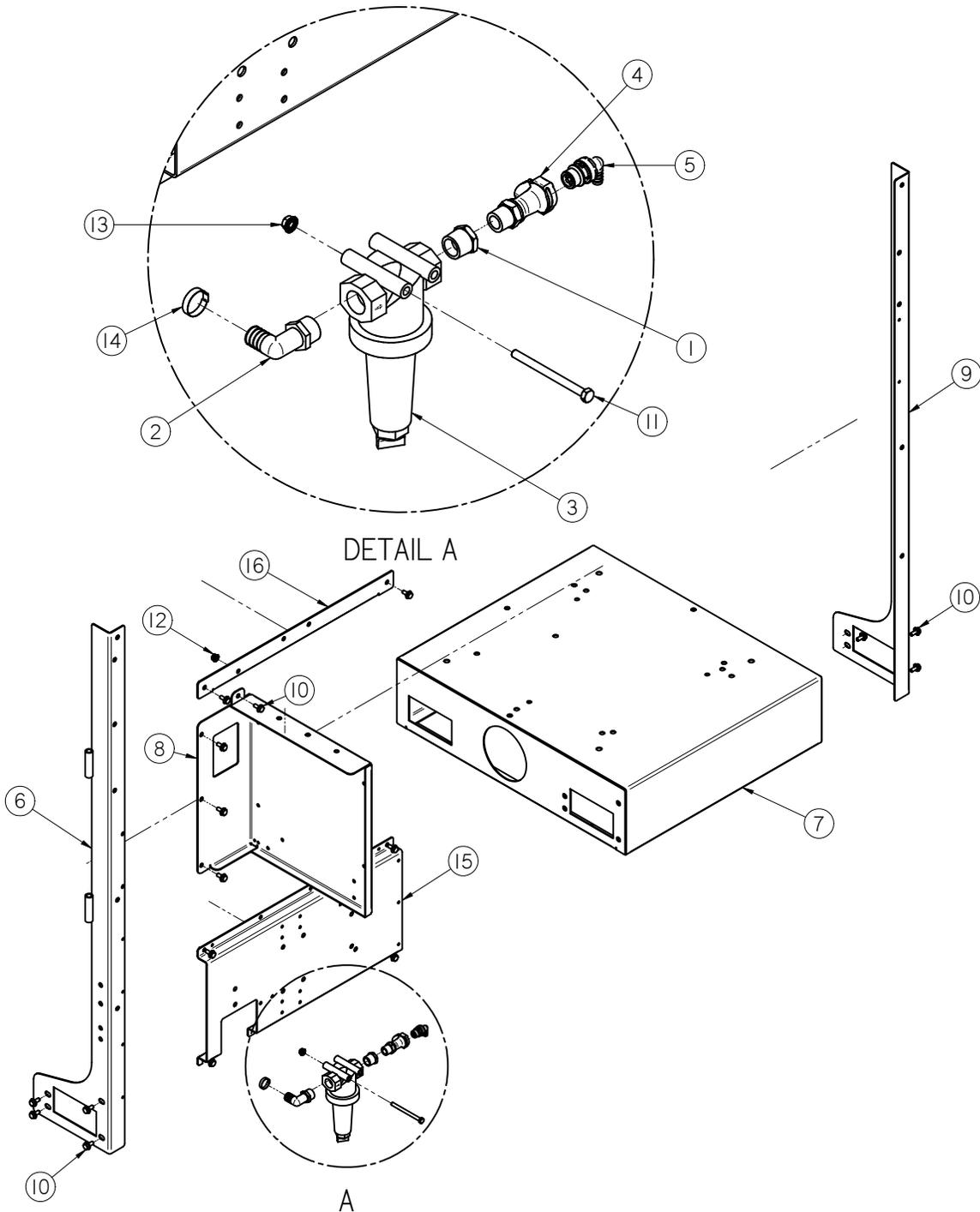
1. Make certain the inside of the tank is completely drained of chemical residue and thoroughly flush the inside of the tank with clean water.
2. Remove and clean the filter.
3. Pump clean water through all areas of the plumbing including the mix tank, flow meter, and valves. It may be necessary to move the position of the air actuated 3-way valve from recirc to process in order to clean the chemical lines that run to the seed treater.
4. Open all drain points, valves, and filter to let as much of the liquid drain as possible.
5. If the pump stand will be exposed to possible freezing temperatures, the final flush of the system should be made with a non freezable liquid. Or use compressed air to blow the lines out from any moisture.
6. Open pump heads and remove tubing to prevent any unnecessary wear (see page 18).
7. Remove the flow meter from the pump stand and store in a location with the following conditions:
 - A. Ambient temperature of 50 to 80 degrees Fahrenheit.
 - B. Protection from direct sunlight to avoid unacceptable high surface temperatures.
 - C. Where moisture does not collect in or on the flow meter. This will help prevent fungus or bacteria infestation which can damage the liner.
 - D. Cover all openings.
 - E. Store in a manner so that the inlet and outlet are as much in an up and down position as possible.

SECTION
G

MECHANICAL DRAWINGS

The following pages show the parts of the Commercial Pump Stand. Please have the part number ready when ordering parts.

BASE FRAME ASSEMBLY - 1 PUMP HEAD (05-03-1155)



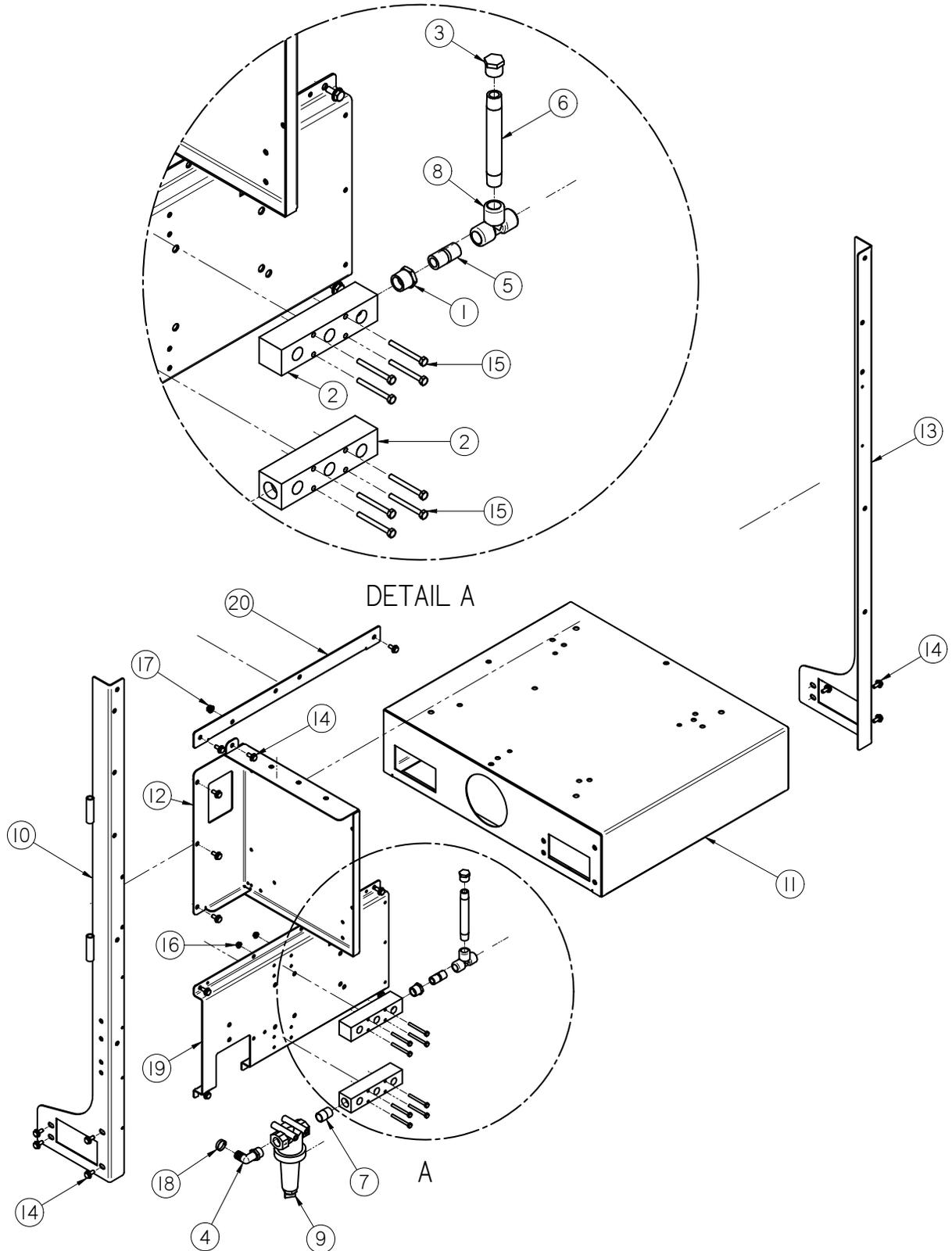
COMMERCIAL PUMP STAND

BASE FRAME ASSEMBLY - 1 PUMP HEAD (05-03-1155)

| Item # | Part # | Description | Qty |
|--------|------------|---|-----|
| 1 | 02-04-0024 | BUSH .750-14 NPT .500-14 NPT BP | 1 |
| 2 | 02-06-0015 | BARB, .750-14 NPT X .750 90DEG WP | 1 |
| 3 | 02-12-0011 | FLTR TEE PPE .750 NPT 16 MESH BANJO | 1 |
| 4 | 02-15-0016 | FTTG CPLG .500 NPT QCK DISC BODY | 1 |
| 5 | 02-15-0022 | FTTG CPLG .375 HB X 90 QCK DISC INSERT | 1 |
| 6 | 05-03-1052 | WDMT SMALL PUMPSTAND LH UPRIGHT | 1 |
| 7 | 05-03-1053 | WDMT SMALL PUMPSTAND BASE BOX | 1 |
| 8 | 05-03-1064 | WDMT PANEL MNT PUMPSTD | 1 |
| 9 | 05-03-1074 | WDMT SMALL PUMPSTAND RH UPRIGHT | 1 |
| 10 | 06-01-0124 | BOLT, FLG .375-16 UNC ZP GRADE 5; 3/4" LG | 18 |
| 11 | 06-01-0248 | BOLT, .3125-18 UNC ZP G5; 4.00" LG | 2 |
| 12 | 06-03-0014 | NUT LOCK FLG .375-16 ZP GR5 | 1 |
| 13 | 06-03-0019 | NUT LOCK FLG .3125-18 ZP GR5 | 2 |
| 14 | 06-07-0030 | HOSE CLAMP ONE EAR 1.004-1.126 | 1 |
| 15 | 102200 | BRKT PUMP ALL HEADS PUMPSTD | 1 |
| 16 | 10220E | PLT XBEAM SUPP VLV PUMPSTD | 1 |

COMMERCIAL PUMP STAND

BASE FRAME ASSEMBLY - 2 OR 3 PUMPHEADS (05-03-1066)



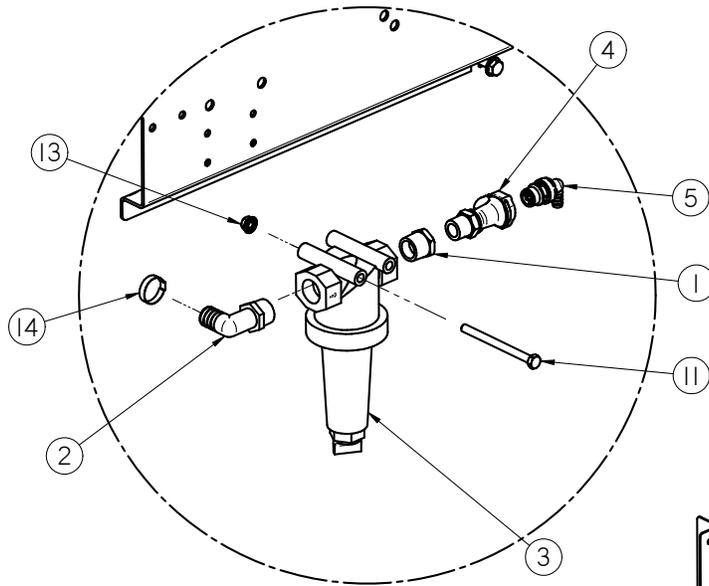
COMMERCIAL PUMP STAND

BASE FRAME ASSEMBLY - 2 OR 3 PUMPHEADS (05-03-1066)

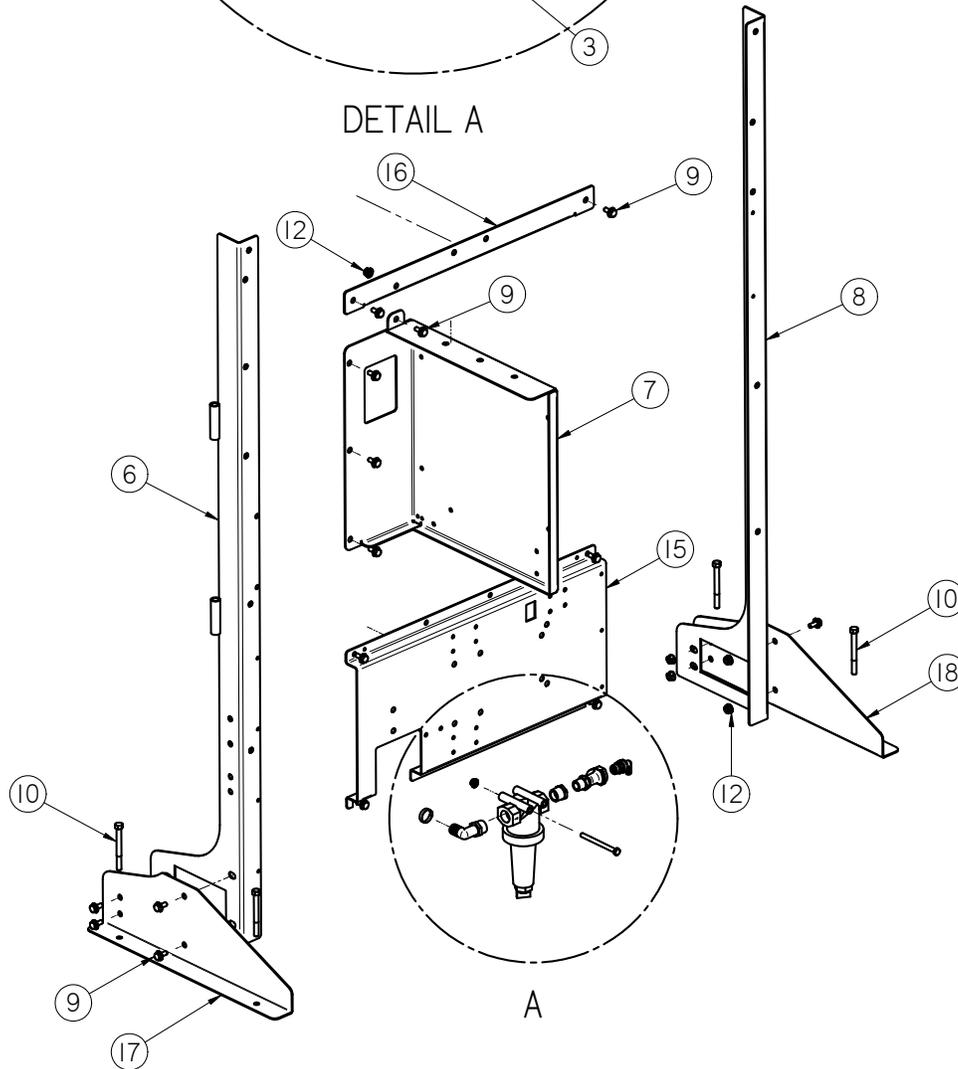
| Item # | Part # | Description | Qty |
|--------|------------|---|-----|
| 1 | 02-04-0008 | BUSHING .750-14 NPT, REDUCER .500-14 NPT | 1 |
| 2 | 02-05-0043 | FTTG MANIFOLD UHMW 1 IN 3 OUT | 2 |
| 3 | 02-05-0086 | FTTG END CAP .500 NPT BP | 1 |
| 4 | 02-06-0015 | FTTG 90 DEG .750HB X .750NPT ML NYL | 1 |
| 5 | 02-07-0009 | FTTG NIP .500 NPT X 1.75 TBE BLK | 1 |
| 6 | 02-07-0060 | FTTG NIP .500 NPT X 6.00 TBE PVC | 1 |
| 7 | 02-07-0070 | FTTG NIP .750 NPT X 1.50 TBE SS | 1 |
| 8 | 02-09-0005 | FTTG TEE .500 NPT PPE | 1 |
| 9 | 02-12-0011 | FLTR TEE PPE .750 NPT 16 MESH BANJO | 1 |
| 10 | 05-03-1052 | WDMT SMALL PUMPSTAND LH UPRIGHT | 1 |
| 11 | 05-03-1053 | WDMT SMALL PUMPSTAND BASE BOX | 1 |
| 12 | 05-03-1064 | WDMT PANEL MNT PUMPSTD | 1 |
| 13 | 05-03-1074 | WDMT SMALL PUMPSTAND RH UPRIGHT | 1 |
| 14 | 06-01-0124 | BOLT, FLG .375-16 UNC ZP GRADE 5; 3/4" LG | 18 |
| 15 | 06-01-0192 | BOLT .250-20 X 2.50 ZP GR5 | 8 |
| 16 | 06-03-0013 | NUT,LOCK, FLG .250-20 ZP SERRATED | 8 |
| 17 | 06-03-0014 | NUT LOCK FLG .375-16 ZP GR5 | 1 |
| 18 | 06-07-0030 | HOSE CLAMP ONE EAR 1.004-1.126 | 1 |
| 19 | 102200 | BRKT PUMP ALL HEADS PUMPSTD | 1 |
| 20 | 10220E | PLT XBEAM SUPP VLV PUMPSTD | 1 |

COMMERCIAL PUMP STAND

U-TOTE FLOOR MOUNT FRAME ASSEMBLY - 1 PUMPHEAD (05-03-1376)



DETAIL A



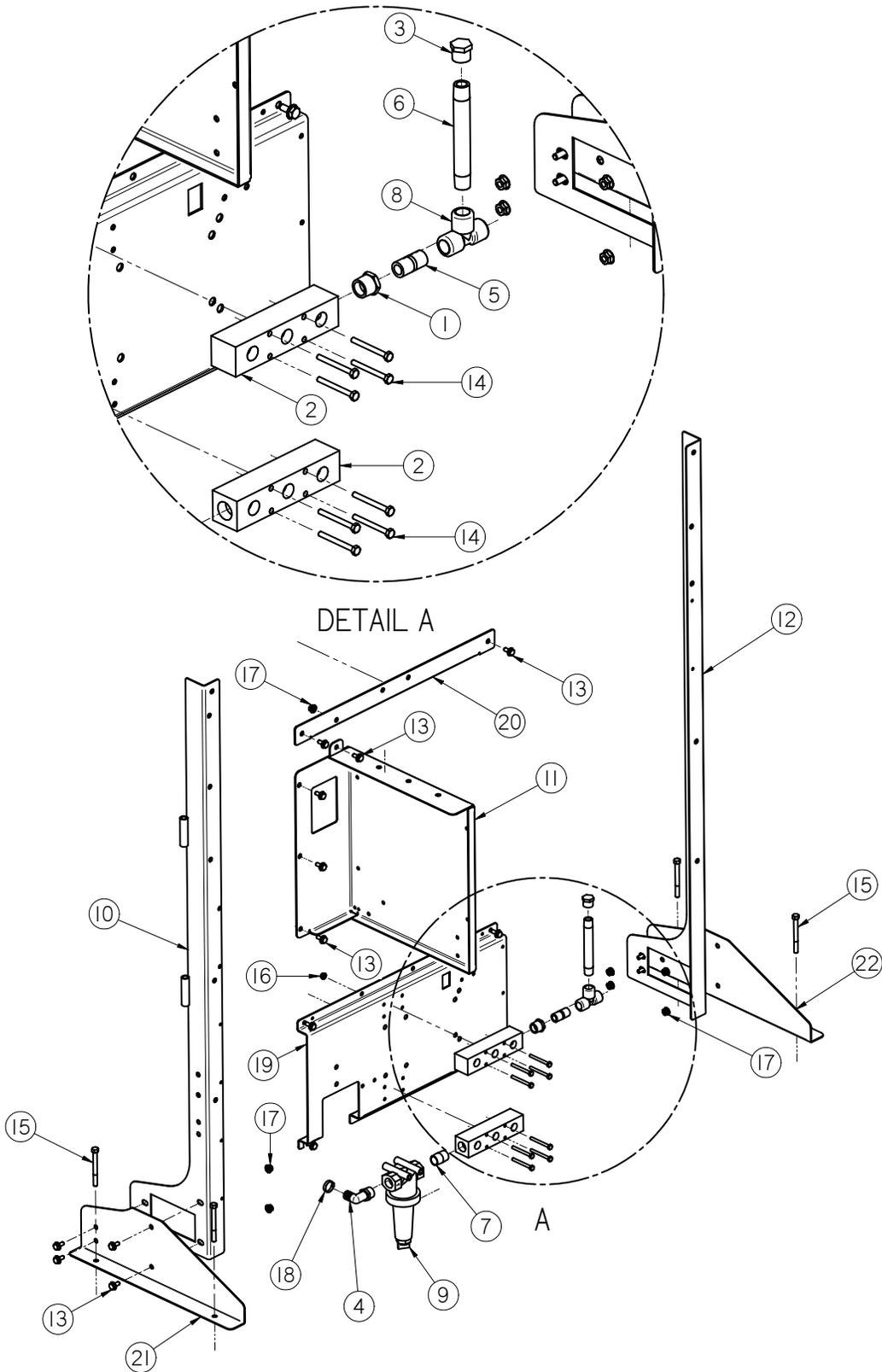
COMMERCIAL PUMP STAND

U-TOTE FLOOR MOUNT FRAME ASSEMBLY - 1 PUMPHEAD (05-03-1376)

| Item # | Part # | Description | Qty |
|--------|------------|---|-----|
| 1 | 02-04-0024 | BUSH .750-14 NPT .500-14 NPT BP | 1 |
| 2 | 02-06-0015 | BARB, .750-14 NPT X .750 90DEG WP | 1 |
| 3 | 02-12-0011 | FLTR TEE PPE .750 NPT 16 MESH BANJO | 1 |
| 4 | 02-15-0016 | FTTG CPLG .500 NPT QCK DISC BODY | 1 |
| 5 | 02-15-0022 | FTTG CPLG .375 HB X 90 QCK DISC INSERT | 1 |
| 6 | 05-03-1052 | WDMT SMALL PUMPSTAND LH UPRIGHT | 1 |
| 7 | 05-03-1064 | WDMT PANEL MNT PUMPSTD | 1 |
| 8 | 05-03-1074 | WDMT SMALL PUMPSTAND RH UPRIGHT | 1 |
| 9 | 06-01-0124 | BOLT, FLG .375-16 UNC ZP GRADE 5; 3/4" LG | 18 |
| 10 | 06-01-0220 | BOLT .375-16 X 3.75 CONCRETE ZP | 4 |
| 11 | 06-01-0248 | BOLT, .3125-18 UNC ZP G5; 4.00" LG | 2 |
| 12 | 06-03-0014 | NUT LOCK FLG .375-16 ZP GR5 | 9 |
| 13 | 06-03-0019 | NUT LOCK FLG .3125-18 ZP GR5 | 2 |
| 14 | 06-07-0030 | HOSE CLAMP ONE EAR 1.004-1.126 | 1 |
| 15 | 102200 | BRKT PUMP ALL HEADS PUMPSTD | 1 |
| 16 | 10220E | PLT XBEAM SUPP VLV PUMPSTD | 1 |
| 17 | 102F03 | PLT FOOT PAD FLR MNT BASE LH | 1 |
| 18 | 102F04 | PLT FOOT PAD FLR MNT BASE RH | 1 |

COMMERCIAL PUMP STAND

U-TOTE FLOOR MOUNT FRAME ASSEMBLY - 2 OR 3 PUMPHEADS (05-03-1377)



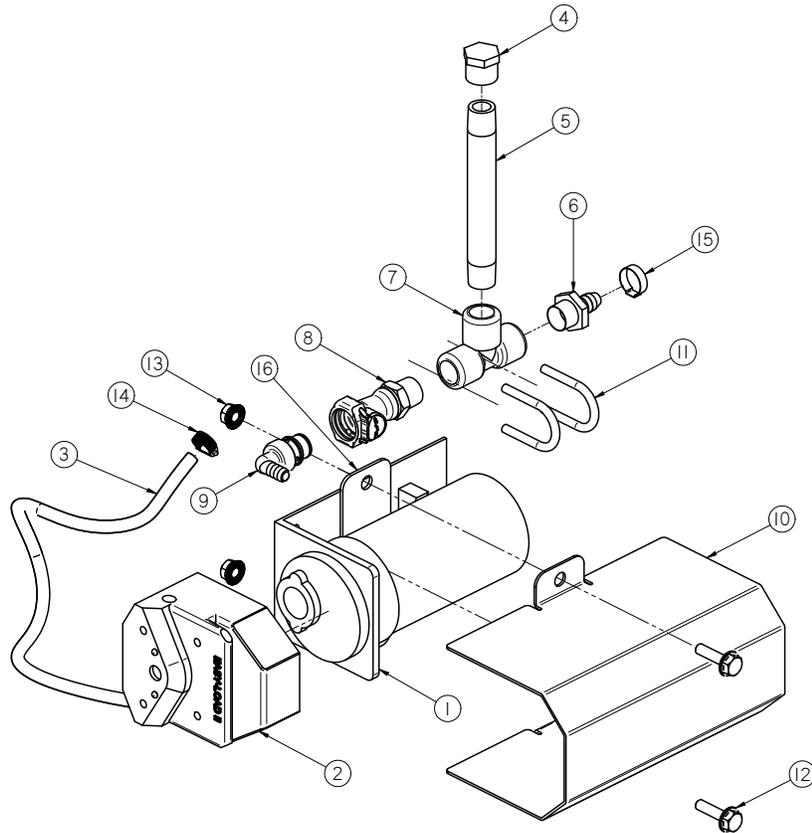
COMMERCIAL PUMP STAND

U-TOTE FLOOR MOUNT FRAME ASSEMBLY - 2 OR 3 PUMPHEADS (05-03-1377)

| Item # | Part # | Description | Qty |
|--------|------------|---|-----|
| 1 | 02-04-0008 | BUSHING .750-14 NPT, REDUCER .500-14 NPT | 1 |
| 2 | 02-05-0043 | FTTG MANIFOLD UHMW 1 IN 3 OUT | 2 |
| 3 | 02-05-0086 | FTTG END CAP .500 NPT BP | 1 |
| 4 | 02-06-0015 | FTTG 90 DEG .750HB X .750NPT ML NYL | 1 |
| 5 | 02-07-0009 | FTTG NIP .500 NPT X 1.75 TBE BLK | 1 |
| 6 | 02-07-0060 | FTTG NIP .500 NPT X 6.00 TBE PVC | 1 |
| 7 | 02-07-0070 | FTTG NIP .750 NPT X 1.50 TBE SS | 1 |
| 8 | 02-09-0005 | F TTG TEE .500 NPT PPE | 1 |
| 9 | 02-12-0011 | FLTR TEE PPE .750 NPT 16 MESH BANJO | 1 |
| 10 | 05-03-1052 | WDMT SMALL PUMPSTAND LH UPRIGHT | 1 |
| 11 | 05-03-1064 | WDMT PANEL MNT PUMPSTD | 1 |
| 12 | 05-03-1074 | WDMT SMALL PUMPSTAND RH UPRIGHT | 1 |
| 13 | 06-01-0124 | BOLT, FLG .375-16 UNC ZP GRADE 5; 3/4" LG | 18 |
| 14 | 06-01-0192 | BOLT .250-20 X 2.50 ZP GR5 | 8 |
| 15 | 06-01-0220 | BOLT .375-16 X 3.75 CONCRETE ZP | 4 |
| 16 | 06-03-0013 | NUT,LOCK, FLG .250-20 ZP SERRATED | 8 |
| 17 | 06-03-0014 | NUT LOCK FLG .375-16 ZP GR5 | 9 |
| 18 | 06-07-0030 | HOSE CLAMP ONE EAR 1.004-1.126 | 1 |
| 19 | 102200 | BRKT PUMP ALL HEADS PUMPSTD | 1 |
| 20 | 10220E | PLT XBEAM SUPP VLV PUMPSTD | 1 |
| 21 | 102F03 | PLT FOOT PAD FLR MNT BASE LH | 1 |
| 22 | 102F04 | PLT FOOT PAD FLR MNT BASE RH | 1 |

COMMERCIAL PUMP STAND

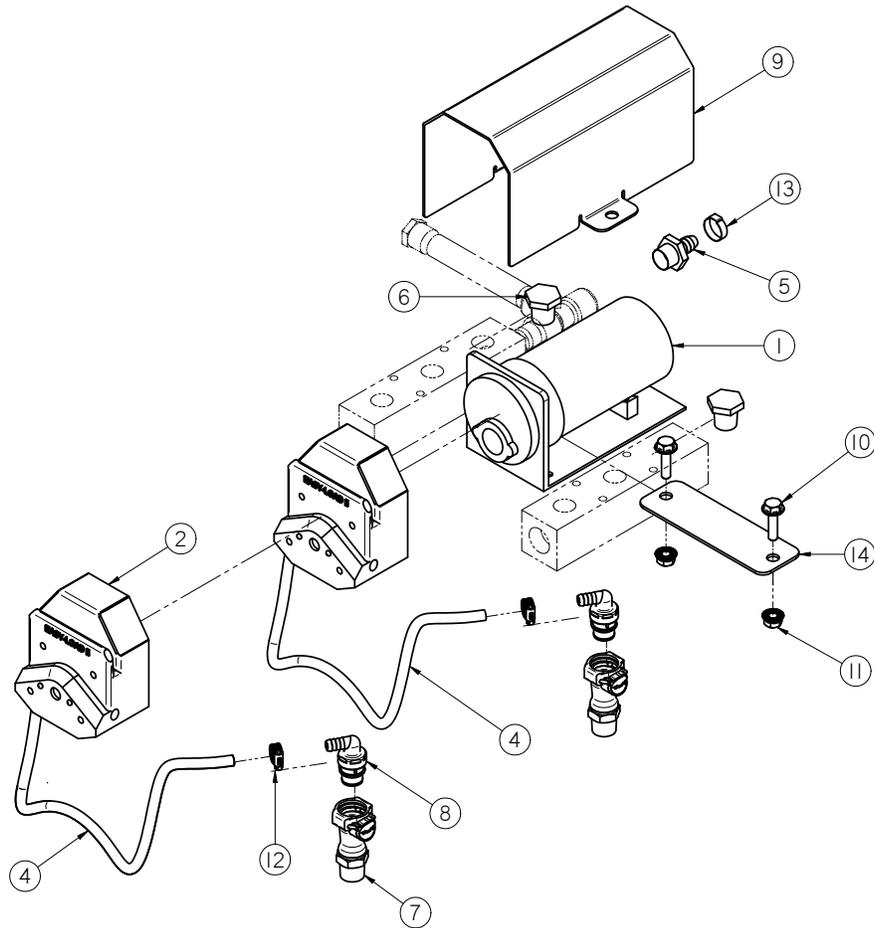
PERISTALTIC PUMP HEAD & MOTOR ASSEMBLY - SINGLE HEAD (13-04-0105)



| Item # | Part # | Description | Qty |
|--------|------------|---|-----|
| 1 | 01-01-0010 | MTR .1HP 6-600RPM 90VDC | 1 |
| 2 | 02-01-0005 | PUMP HEAD PRST MF LS 115V 600RPM | 1 |
| 3 | 02-03-0001 | TUBE MASTERFLEX PUMPHEAD | 4 |
| 4 | 02-05-0086 | FTTG END CAP .500 NPT BP | 1 |
| 5 | 02-07-0060 | FTTG NIP .500 NPT X 6.00 TBE PVC | 1 |
| 6 | 02-08-0007 | FTTG STGHT .500HB X .500NPT ML NYL | 1 |
| 7 | 02-09-0005 | FTTG TEE .500 NPT PPE | 1 |
| 8 | 02-15-0016 | FTTG CPLG .500 NPT QCK DISC BODY | 1 |
| 9 | 02-15-0022 | FTTG CPLG .375 HB X 90 QCK DISC INSERT | 1 |
| 10 | 05-06-0101 | WDMT PUMP MTR COVER | 1 |
| 11 | 06-01-0120 | U BOLT 1/4-20 1-1/8 INSIDE 2" LG | 2 |
| 12 | 06-01-0189 | BOLT, FLG .375-16 UNC ZP GRADE 5; 1-1/4" LG | 2 |
| 13 | 06-03-0014 | NUT LOCK FLG .375-16 ZP GR5 | 2 |
| 14 | 06-07-0005 | CLMP HOSE .219 TO .625 X .313W ZP | 2 |
| 15 | 06-07-0029 | HOSE CLAMP ONE EAR, .716-.827 | 1 |
| 16 | 102276 | BRKT PUMP MOUNT PUMPSTD | 1 |

COMMERCIAL PUMP STAND

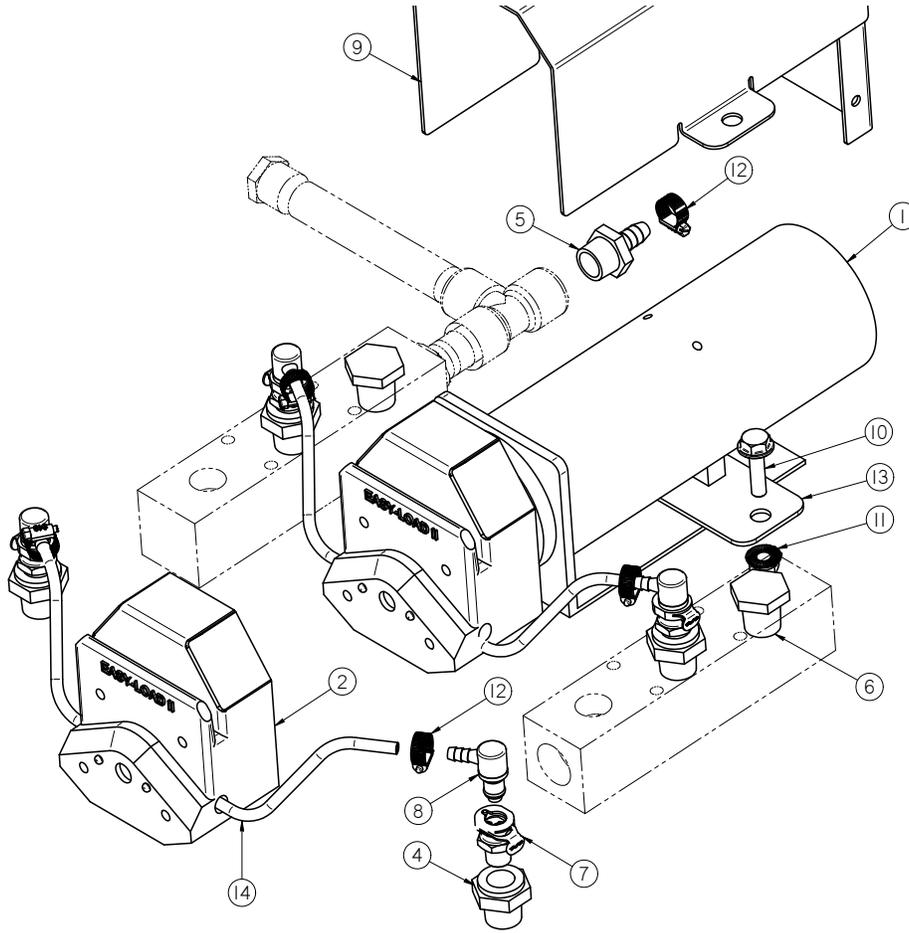
PERISTALTIC PUMP HEAD & MOTOR ASSEMBLY - DUAL HEAD (13-04-0104)



| Item # | Part # | Description | Qty |
|--------|------------|---|-----|
| 1 | 01-01-0010 | MTR .1HP 6-600RPM 90VDC | 1 |
| 2 | 02-01-0005 | PUMP HEAD PRST MF LS 115V 600RPM | 2 |
| 3 | 02-01-0013 | PUMP DUAL MF HARDWARE SS - LS HEAD | 1 |
| 4 | 02-03-0001 | TUBE MASTERFLEX PUMPHEAD | 5 |
| 5 | 02-08-0007 | FTTG STGHT .500HB X .500NPT ML NYL | 1 |
| 6 | 02-14-0002 | FTTG PLUG HH .500 NPT PPE BLK* | 2 |
| 7 | 02-15-0016 | FTTG CPLG .500 NPT QCK DISC BODY | 4 |
| 8 | 02-15-0022 | FTTG CPLG .375 HB X 90 QCK DISC INSERT | 4 |
| 9 | 05-06-0101 | WDMT PUMP MTR COVER | 1 |
| 10 | 06-01-0189 | BOLT, FLG .375-16 UNC ZP GRADE 5; 1-1/4" LG | 2 |
| 11 | 06-03-0014 | NUT LOCK FLG .375-16 ZP GR5 | 2 |
| 12 | 06-07-0005 | CLMP HOSE .219 TO .625 X .313W ZP | 4 |
| 13 | 06-07-0029 | HOSE CLAMP ONE EAR, .716-.827 | 1 |
| 14 | 102276 | BRKT PUMP MOUNT PUMPSTD | 1 |

COMMERCIAL PUMP STAND

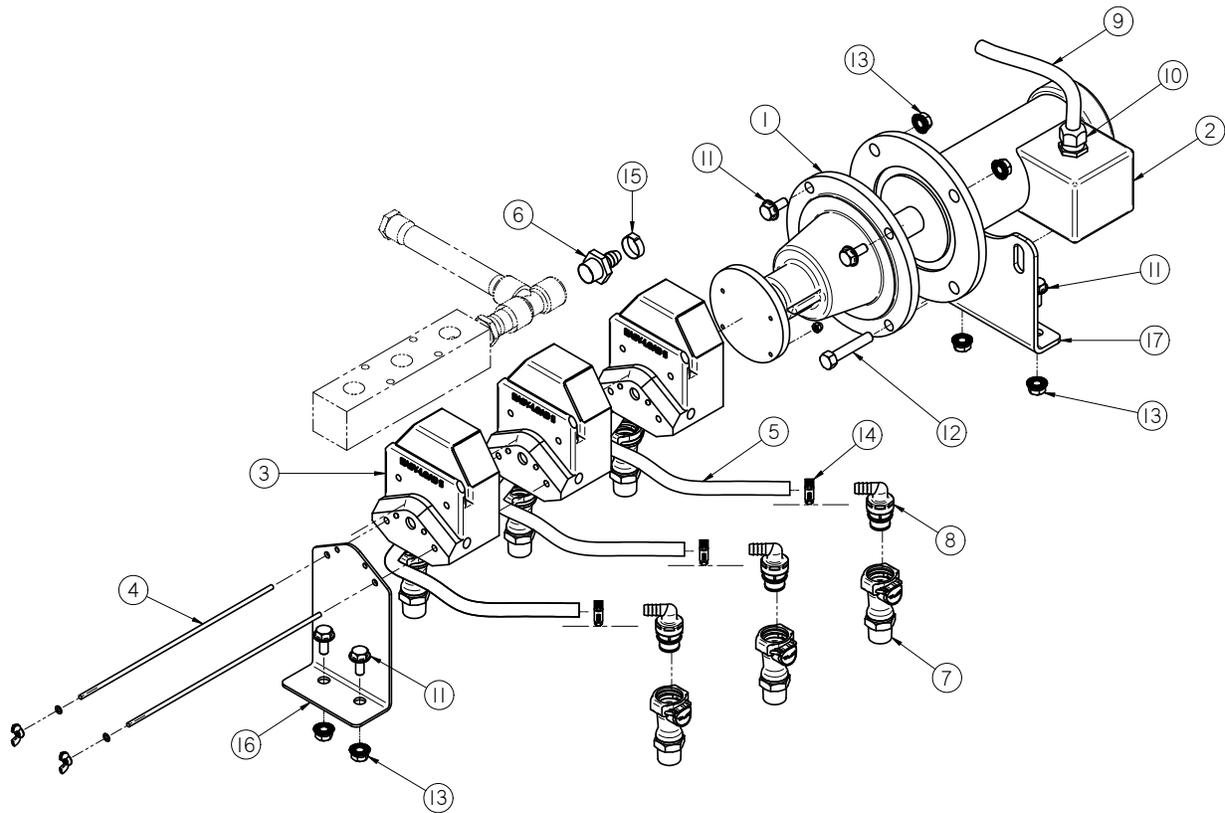
PERISTALTIC PUMP HEAD & MOTOR ASSEMBLY - LOW FLOW (13-04-0197)



| Item # | Part # | Description | Qty |
|--------|------------|---|-----|
| 1 | 01-01-0207 | MOTOR MASTERFLEX 1-100 RPM 90VDC | 1 |
| 2 | 02-01-0005 | PUMP HEAD PRST MF LS 115V 600RPM | 2 |
| 3 | 02-01-0013 | PUMP DUAL MF HARDWARE SS - LS HEAD | 1 |
| 4 | 02-04-0001 | FTTG BUSH .500NPT X.250NPT BP | 4 |
| 5 | 02-08-0005 | FTTG STGHT .375HB X .500NPT ML NYL | 1 |
| 6 | 02-14-0002 | FTTG PLUG HH .500 NPT PPE BLK* | 2 |
| 7 | 02-15-0026 | .25NPT POLY BODY SOVLV .25NOM | 4 |
| 8 | 02-15-0027 | .25HB 90DEG POLY INS STTRU .25NOM | 4 |
| 9 | 05-06-0101 | WDMT PUMP MTR COVER | 1 |
| 10 | 06-01-0189 | BOLT, FLG .375-16 UNC ZP GRADE 5; 1-1/4" LG | 2 |
| 11 | 06-03-0014 | NUT LOCK FLG .375-16 ZP GR5 | 2 |
| 12 | 06-07-0005 | CLMP HOSE .219 TO .625 X .313W ZP | 5 |
| 13 | 102276 | BRKT PUMP MOUNT PUMPSTD | 1 |
| 14 | 103AAE | TUBE MASTERFLEX PUMPHEAD | 4 |

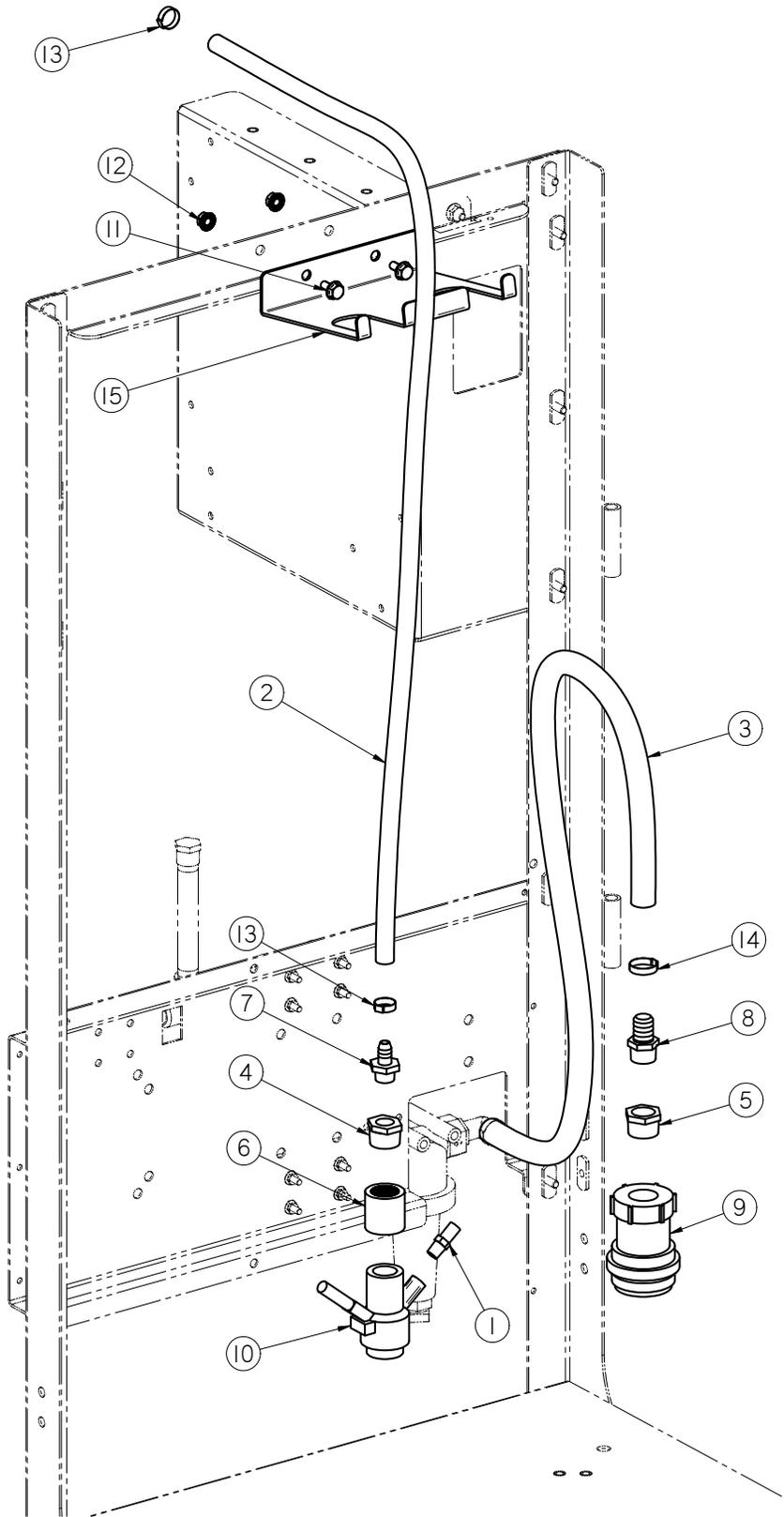
COMMERCIAL PUMP STAND

PERISTALTIC PUMP HEAD & MOTOR ASSEMBLY - TRIPLE HEAD (13-04-0103)



| Item # | Part # | Description | Qty |
|--------|------------|---|-----|
| 1 | 01-01-0066 | SPEED REDUCER, 3.7 TO 1 | 1 |
| 2 | 01-01-0160 | MTR .25HP 2500 RPM 34 90VDC | 1 |
| 3 | 02-01-0005 | PUMP HEAD PRST MF LS 115V 600RPM | 3 |
| 4 | 02-01-0033 | PUMP 3 MF HARDWARE SS - LS HEAD | 1 |
| 5 | 02-03-0001 | HOSE MF .375 NPRN BLK - LS35 .31 ID | 6 |
| 6 | 02-08-0007 | FTTG STGHT .500HB X .500NPT ML NYL | 1 |
| 7 | 02-15-0016 | FTTG CPLG .500 NPT QCK DISC BODY | 6 |
| 8 | 02-15-0022 | FTTG CPLG .375 HB X 90 QCK DISC INSERT | 6 |
| 9 | 03-07-0013 | CORDSEO143 (KD) 14/3 SEO WIRE CORD | 1 |
| 10 | 03-08-0064 | CONN CG PLASTIC 0.5NPT .200-.472 | 1 |
| 11 | 06-01-0124 | BOLT, FLG .375-16 UNC ZP GRADE 5; 3/4" LG | 6 |
| 12 | 06-01-0137 | BOLT .375-16 X 2.00 ZP GR5 FULL THRD | 2 |
| 13 | 06-03-0014 | NUT LOCK FLG .375-16 ZP GR5 | 8 |
| 14 | 06-07-0005 | CLMP HOSE .219 TO .625 X .313W ZP | 6 |
| 15 | 06-07-0029 | HOSE CLAMP ONE EAR, .716-.827 | 1 |
| 16 | 102213 | BRKT 3PUMPHEAD MNT PUMPSTD | 1 |
| 17 | 102214 | BRKT 3HEAD MOTOR MNT PUMPSTD | 1 |

COMMERCIAL PUMP STAND
U-TOTE FITTING ASSEMBLY (13-05-0359)



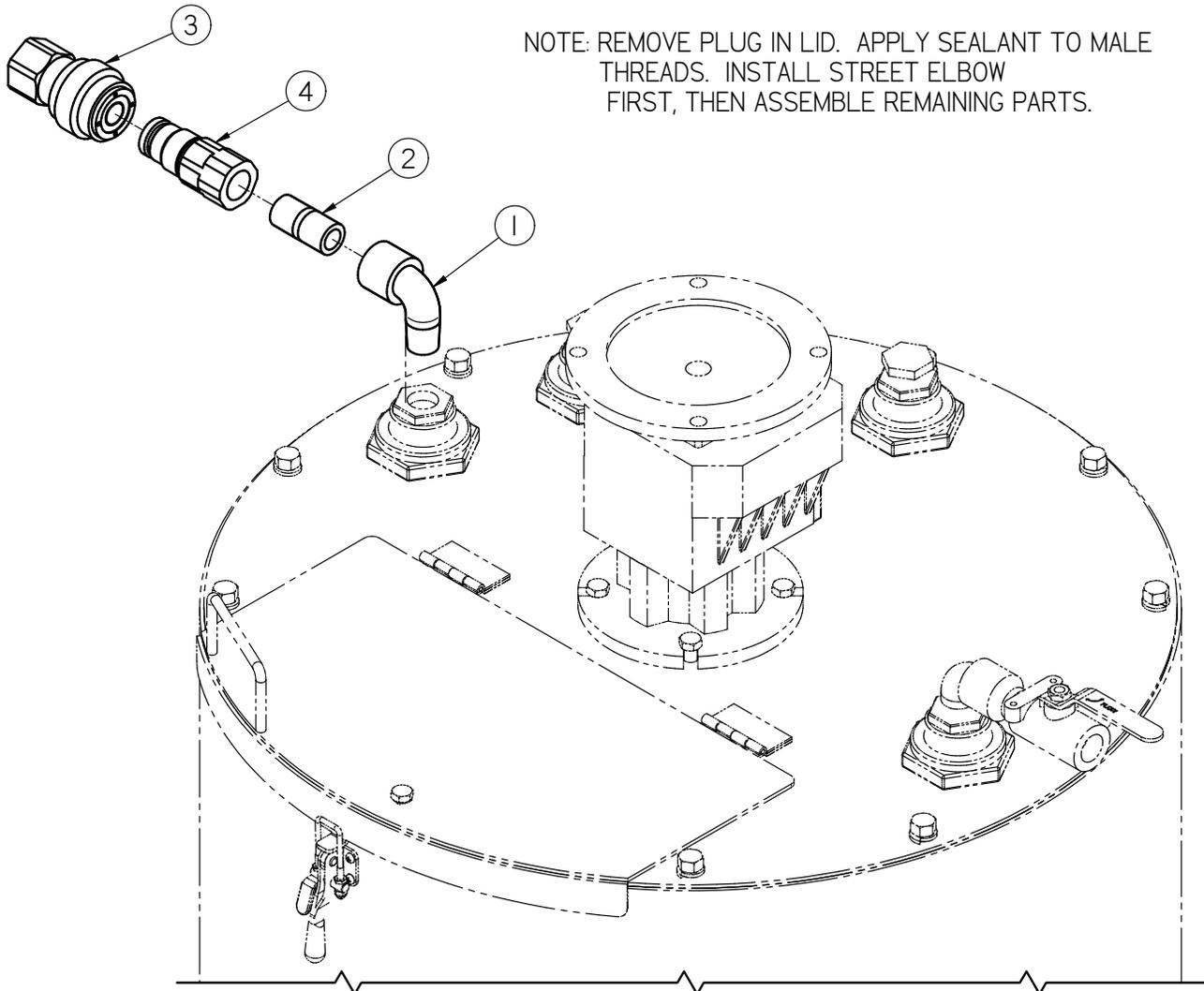
COMMERCIAL PUMP STAND

U-TOTE FITTING ASSEMBLY (13-05-0359)

| Item # | Part # | Description | Qty |
|--------|------------|---|-----|
| 1 | 02-02-0050 | FLTR EXHAUST BRZ .250 NPT ML | 1 |
| 2 | 02-03-0005 | RETURN TUBE | 1 |
| 3 | 02-03-0006 | SUCTION TUBE | 1 |
| 4 | 02-04-0002 | FTTG BUSH 1.00NPT X .500NPT NYL | 1 |
| 5 | 02-04-0007 | FTTG BUSH 1.00NPT x .750NPT PPE | 1 |
| 6 | 02-05-0026 | FTTG CPLG 1.00 NPT FM 150PSI SS | 1 |
| 7 | 02-08-0007 | FTTG STGHT .500HB X .500NPT ML NYL | 1 |
| 8 | 02-08-0010 | FTTG STGHT .750HB X .750NPT ML NYL | 1 |
| 9 | 02-15-0005 | FTTG CPLG 1.00 NPT FM PARKER POLY | 1 |
| 10 | 02-15-0045 | FTTG CPLG DRM FILL HD SS MICROMATIC | 1 |
| 11 | 06-01-0124 | BOLT, FLG .375-16 UNC ZP GRADE 5; 3/4" LG | 2 |
| 12 | 06-03-0014 | NUT LOCK FLG .375-16 ZP GR5 | 2 |
| 13 | 06-07-0029 | HOSE CLAMP ONE EAR, .716-.827 | 2 |
| 14 | 06-07-0030 | HOSE CLAMP ONE EAR 1.004-1.126 | 1 |
| 15 | 102DB2 | HOSE HNGR UTOTE | 1 |

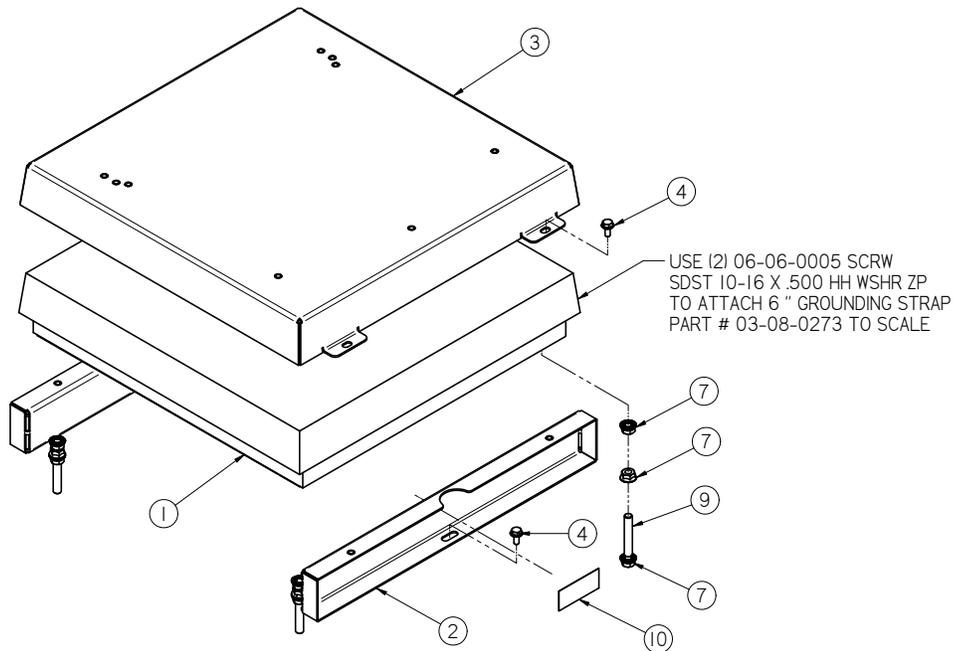
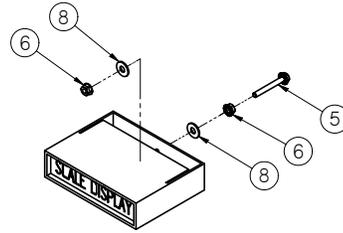
COMMERCIAL PUMP STAND

MIX TANK DRY LOCK FITTINGS (13-10-0017)



| Item # | Part # | Description | Qty |
|--------|------------|-----------------------------------|-----|
| 1 | 02-06-0017 | 1/2-14 NPT,SL 90 DEG. BP | 1 |
| 2 | 02-07-0009 | FTTG NIP .500 NPT X 1.75 TBE BLK | 1 |
| 3 | 02-15-0035 | FTTG CPLG 0.50 NPT FM PARKER POLY | 1 |
| 4 | 02-15-0036 | FTTG CPLG 0.50 NPT ML PARKER POLY | 1 |

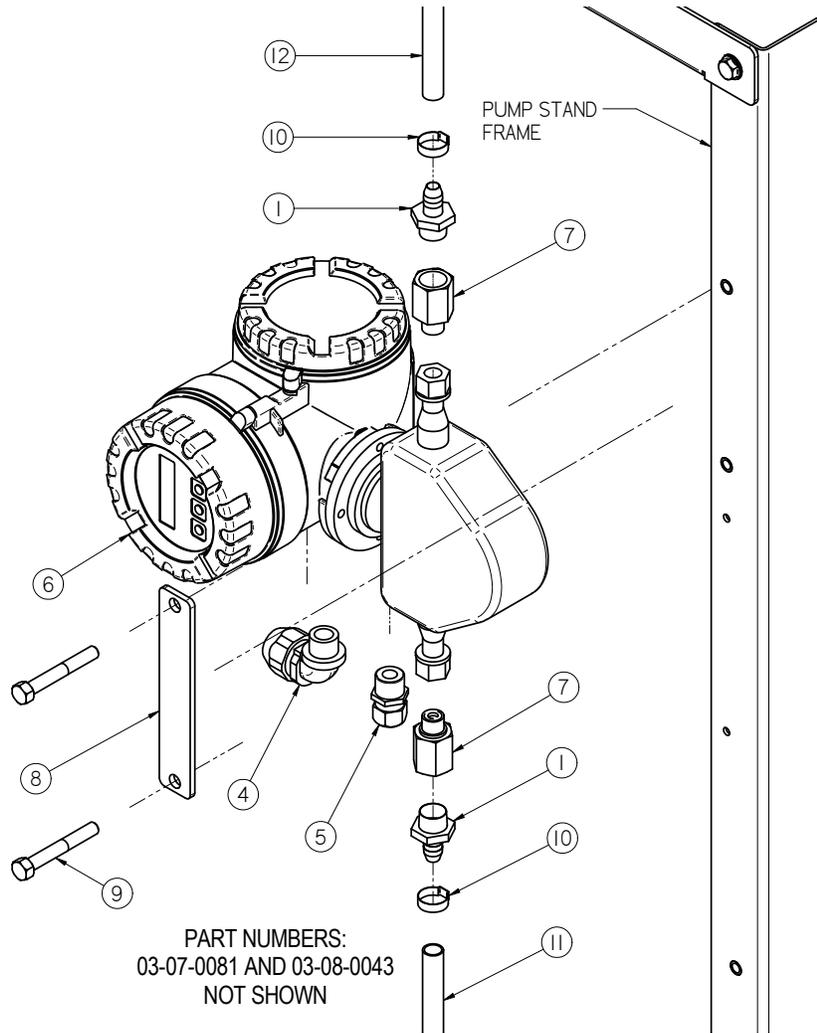
COMMERCIAL PUMP STAND
SCALE ASSEMBLY (05-03-1069)



| Item # | Part # | Description | Qty |
|--------|------------|---|-----|
| 1 | 03-19-0055 | SCL CARDINAL EB-1024 24 X 24 X 1000 | 1 |
| 2 | 05-03-1072 | ASSY SPACER PUMPSTD | 1 |
| 3 | 05-03-1073 | WDMT SCALE LID PUMPSTD | 1 |
| 4 | 06-01-0124 | BOLT, FLG .375-16 UNC ZP GRADE 5; 3/4" LG | 6 |
| 5 | 06-01-0204 | BOLT FLG .375-16 X 2.50 ZP GR5 FTH | 1 |
| 6 | 06-03-0014 | NUT LOCK FLG .375-16 ZP GR5 | 2 |
| 7 | 06-03-0015 | NUT LOCK FLG .500-13 ZP GR5 | 12 |
| 8 | 06-05-0004 | WSHR FLAT .375 ZP | 2 |
| 9 | 06-14-0018 | STUD .500-13 ZP X 3.00 | 4 |
| 10 | 09-02-0020 | LBL ATWRK ATT SCALE BRKT | 2 |

COMMERCIAL PUMP STAND

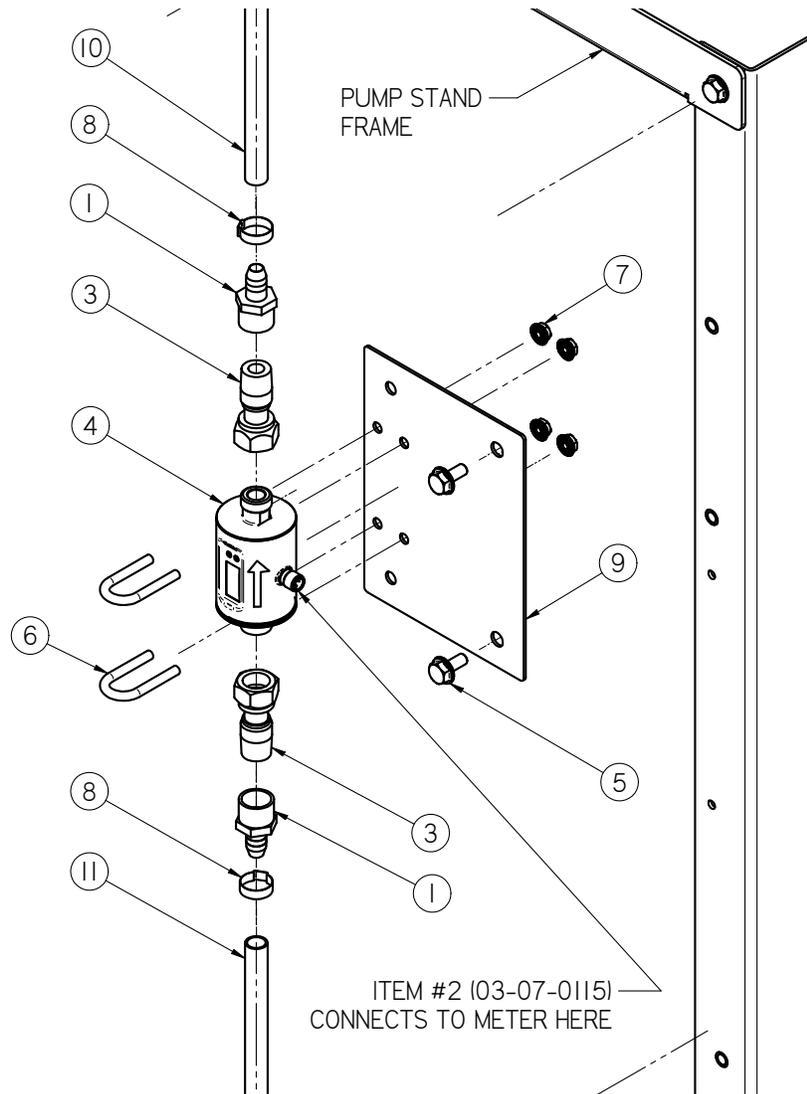
MASS FLOW METER ASSEMBLY (05-03-1067)



| Item # | Part # | Description | Qty |
|--------|------------|------------------------------------|-----|
| 1 | 02-08-0007 | FTTG STGHT .500HB X .500NPT ML NYL | 2 |
| 2 | 03-07-0081 | CORD 3COND 18AWG SJ00W 300V | 1 |
| 3 | 03-08-0043 | CNDT .500 NM FLX | 1 |
| 4 | 03-08-0044 | CNDT .500 FTTG NM 90DEG NM | 1 |
| 5 | 03-08-0064 | CONN CG PLASTIC 0.5NPT .200-.472 | 1 |
| 6 | 03-18-0019 | FLMT PROMASS 80E08 DN8 | 1 |
| 7 | 03-18-0021 | FTTG ADPTR 1/2" VC0 X 1/2" FPT E+H | 2 |
| 8 | 05-10-3413 | BRACKET FLMT CLAMP E&H 83E | 1 |
| 9 | 06-01-0116 | BOLT .375-16 X 2.75 ZP GR5 | 2 |
| 10 | 06-07-0029 | HOSE CLAMP ONE EAR, .716-.827 | 2 |
| 11 | 1022AE | MASS FLMT TO PUMPS | 1 |
| 12 | 102342 | MASS FLMT TO CNTLS | 1 |

COMMERCIAL PUMP STAND

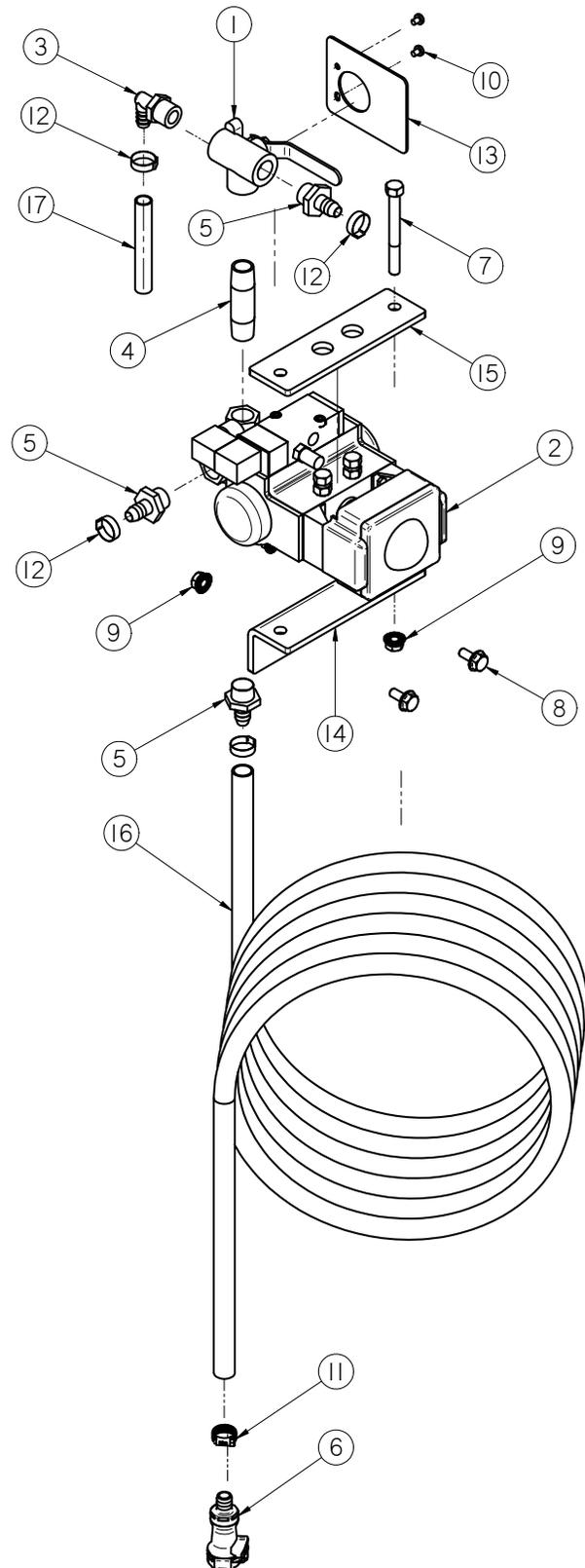
VOLUMETRIC FLOW METER ASSEMBLY (05-03-1181)



| Item # | Part # | Description | Qty |
|--------|------------|---|-----|
| 1 | 02-08-0026 | FTTG STGHT .500HB X .500NPT FM NYL | 2 |
| 2 | 03-07-0115 | CORD MOLDED M12 IFM EVC001 | 1 |
| 3 | 03-18-0020 | FTTG ADPTR G1/2 TO 1/2NPT ML IFM | 2 |
| 4 | 03-18-0025 | FLMT IFM EFECTOR SM6000 AE 1/2 IN | 1 |
| 5 | 06-01-0124 | BOLT, FLG .375-16 UNC ZP GRADE 5; 3/4" LG | 2 |
| 6 | 06-01-0199 | BOLT U .313-18 X 1.00 X .375 ZP GR5 | 2 |
| 7 | 06-03-0013 | NUT, LOCK, FLG .250-20 ZP SERRATTED | 4 |
| 8 | 06-07-0029 | HOSE CLAMP ONE EAR, .716-.827 | 2 |
| 9 | 1029CF | BRKT MNT | 1 |
| 10 | 102A3B | VOL FLMT TO CNTLS | 1 |
| 11 | 102A3C | VOL FLMT TO PUMPS | 1 |

COMMERCIAL PUMP STAND

3 WAY VALVE ASSEMBLY (13-04-0108)



COMMERCIAL PUMP STAND

3 WAY VALVE ASSEMBLY (13-04-0108)

| Item # | Part # | Description | Qty |
|--------|------------|---|-----|
| 1 | 02-02-0007 | VLV BALL .500 NPT 3WAY BRSS | 1 |
| 2 | 02-02-0063 | VALVE SS BALL .500 NPT 3-WAY AIR ACTUATED | 1 |
| 3 | 02-06-0010 | FTTG 90 DEG .500HB X .500NPT ML NYL | 1 |
| 4 | 02-07-0019 | NIPPLE, .500-14 NPT, 3.0"LG 304SS TBE | 1 |
| 5 | 02-08-0007 | FTTG STGHT .500HB X .500NPT ML NYL | 3 |
| 6 | 02-15-0013 | FTTG CPLG .500 HB QCK DISC BODY | 1 |
| 7 | 06-01-0022 | BOLT, .375-16 X 3 1/2" UNC ZP GRADE 5 | 2 |
| 8 | 06-01-0124 | BOLT, FLG .375-16 UNC ZP GRADE 5; 3/4" LG | 2 |
| 9 | 06-03-0014 | NUT LOCK FLG .375-16 ZP GR5 | 4 |
| 10 | 06-06-0008 | SCRW MACH 10-24 X .250 PHLP PHD ZP | 2 |
| 11 | 06-07-0006 | CLMP HOSE .500 TO .906 X .313W ZP | 1 |
| 12 | 06-07-0029 | HOSE CLAMP ONE EAR, .716-.827 | 4 |
| 13 | 102231 | PLT SOL VLV LABEL PUMPSTD | 1 |
| 14 | 1029EA | BRKT MNT CLMP | 1 |
| 15 | 1029EB | PLT CLMP | 1 |
| 16 | 102A89 | TUBE | 1 |
| 17 | 102CA1 | TANK TO AUTO CNTLS | 1 |

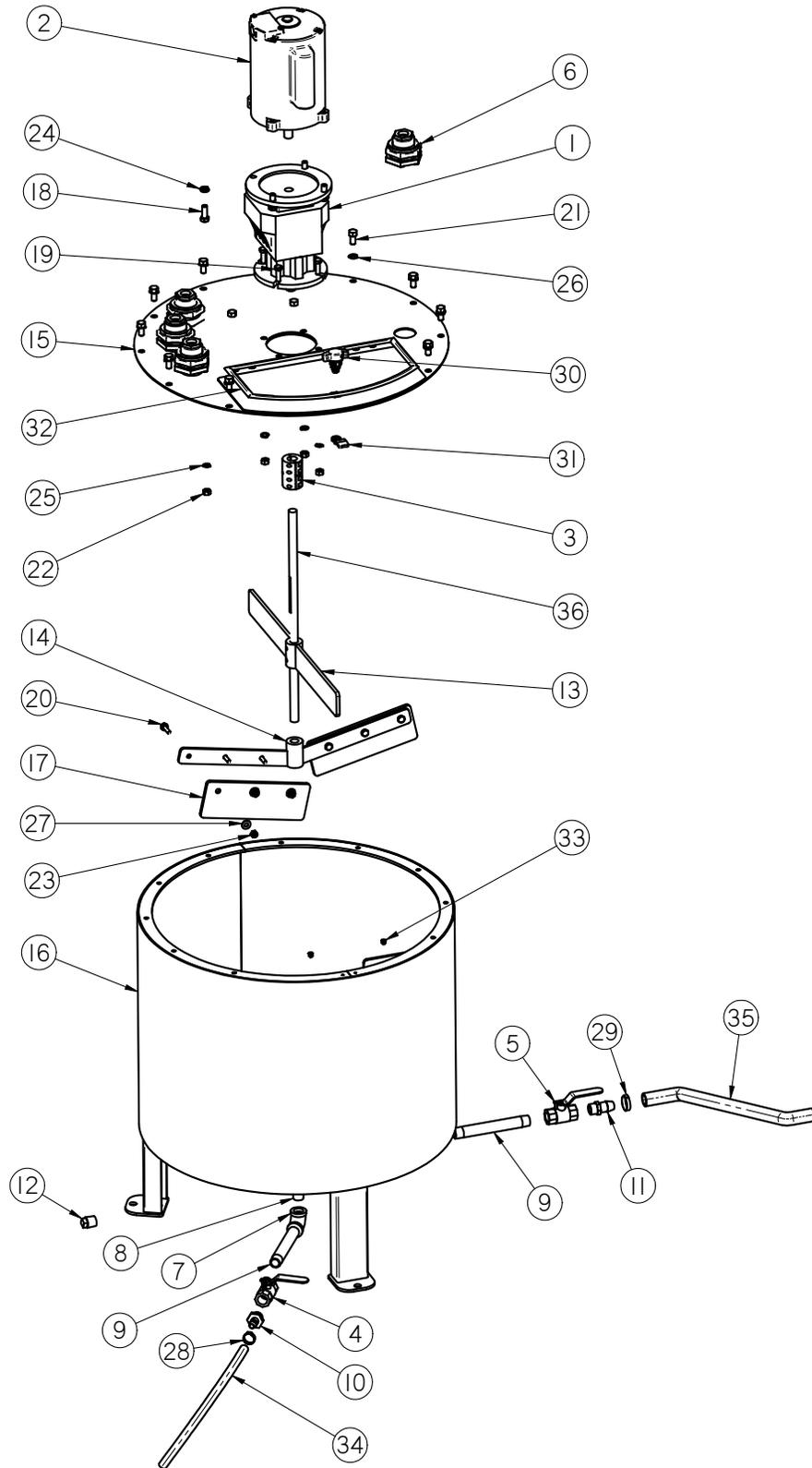
COMMERCIAL PUMP STAND

CALIBRATION TUBE ASSEMBLY (13-04-0106)

| Item # | Part # | Description | Qty |
|--------|------------|---|-----|
| 1 | 02-02-0007 | VLV BALL .500 NPT 3WAY BRSS | 1 |
| 2 | 02-03-0005 | TUBE,CALIBRATION TUBE INSIDE | 1 |
| 3 | 02-03-0006 | HOSE RNT .750 CLEAR | 1 |
| 4 | 02-06-0014 | FTTG 90 DEG .750HB X .500NPT ML NYL | 1 |
| 5 | 02-08-0007 | FTTG STGHT .500HB X .500NPT ML NYL | 3 |
| 6 | 02-08-0011 | FTTG STGHT .750HB X .500NPT ML* | 1 |
| 7 | 02-08-0021 | FTTG STGHT .500 HB X .750NPT WP | 1 |
| 8 | 05-08-0006 | WDMT,INOC.BRK,SM | 1 |
| 9 | 05-08-0007 | WDMT,BRK,INOC LG | 1 |
| 10 | 06-01-0124 | BOLT, FLG .375-16 UNC ZP GRADE 5; 3/4" LG | 2 |
| 11 | 06-01-0189 | BOLT, FLG .375-16 UNC ZP GRADE 5; 1-1/4" LG | 1 |
| 12 | 06-03-0003 | NUT NYL LOCK .375-16 ZP GR5 | 1 |
| 13 | 06-05-0004 | WSHR FLAT .375 ZP | 2 |
| 14 | 06-06-0008 | SCRW MACH 10-24 X .250 PHLP PHD ZP | 2 |
| 15 | 06-07-0029 | HOSE CLAMP ONE EAR, .716-.827 | 4 |
| 16 | 06-07-0030 | HOSE CLAMP ONE EAR 1.004-1.126 | 2 |
| 17 | 07-02-0006 | CALIBRATION TUBE,10K ML - 2005 | 1 |
| 18 | 102290 | PLT LABEL SOURCE PUMPSTD | 1 |
| 19 | 102A39 | CAL TUBE TO CNTLS | 1 |
| 20 | 102A3A | CAL TUBE TO FRAME | 1 |
| 21 | 102C9E | FRAME TO TANK | 1 |

COMMERCIAL PUMP STAND

STAINLESS STEEL MIX TANK ASSEMBLY - 30 GALLON (04-03-0180)



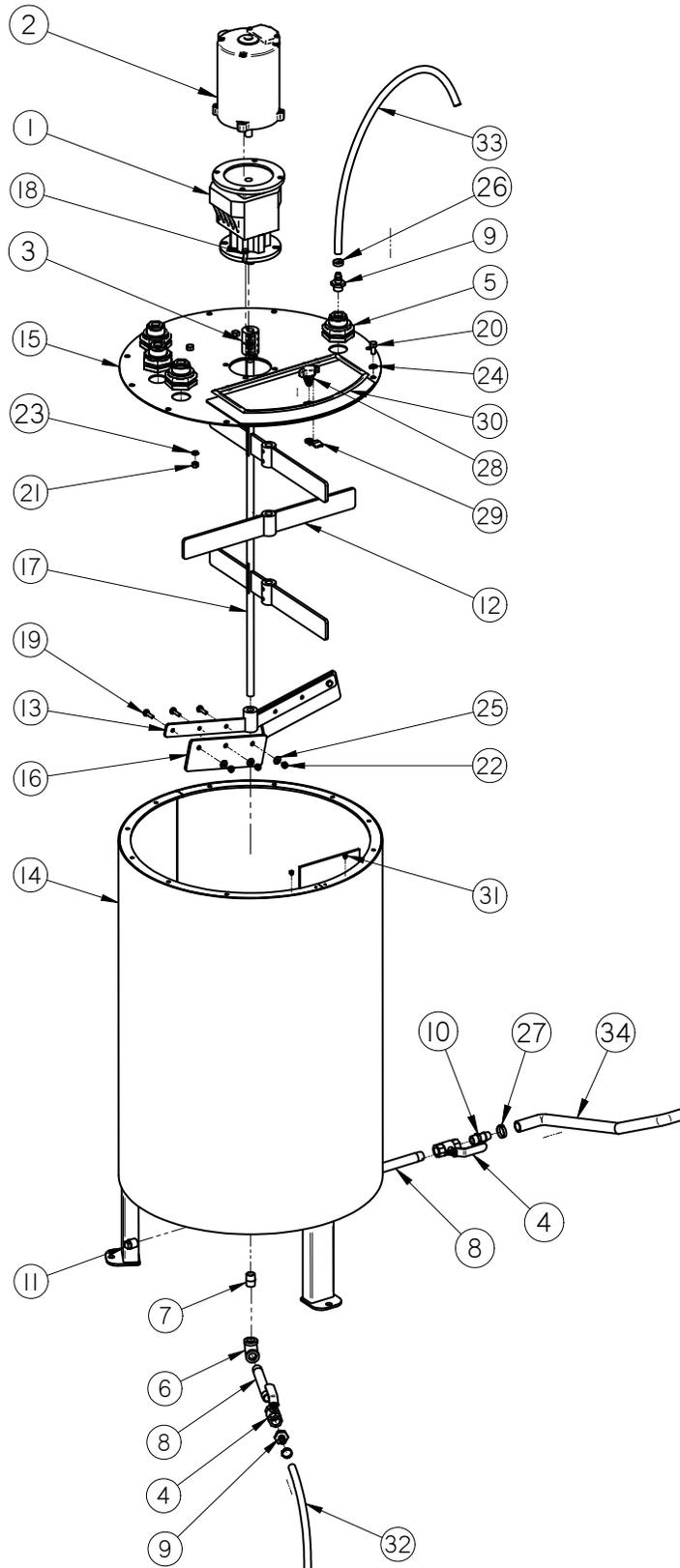
COMMERCIAL PUMP STAND

STAINLESS STEEL MIX TANK ASSEMBLY - 30 GALLON (04-03-0180)

| Item # | Part # | Description | Qty |
|--------|------------|------------------------------------|-----|
| 1 | 01-01-0039 | GBOX IL 61.8:1 56C OTP 56C INP | 1 |
| 2 | 01-01-0104 | MTR .33HP 1725RPM 56C 1PH TEFC | 1 |
| 3 | 01-07-0015 | CPLG CLPN .625 X .750 X 1.50OD SS | 1 |
| 4 | 02-02-0006 | .500-14 NPT X 2-WAY VALVE | 1 |
| 5 | 02-02-0006 | VLV BALL .500 NPT 2WAY BRSS | 1 |
| 6 | 02-05-0028 | FTTG .500 NPT DBL THD PPE BULKHEAD | 4 |
| 7 | 02-06-0012 | ELBOW, .500-14 NPT, 90 DEG. SS | 1 |
| 8 | 02-07-0007 | FTTG NIP .500 NPT X 1.125 TBE SS | 1 |
| 9 | 02-07-0015 | FTTG NIP .500 NPT X 6.00 TBE SS | 2 |
| 10 | 02-08-0007 | FTTG STGHT .500HB X .500NPT ML NYL | 1 |
| 11 | 02-08-0011 | 1/2-14 NPT, 3/4 BARB, STRAIGHT BP | 1 |
| 12 | 02-14-0001 | FTTG PLUG SQHD .500 NPT SS | 1 |
| 13 | 05-03-0069 | WDMT 50GAL MIDDLE STIR ARM | 1 |
| 14 | 05-03-0070 | WDMT 50GAL LOWER STIR ARM | 1 |
| 15 | 05-03-1079 | ASSY SS TANK LID 30-60 GAL | 1 |
| 16 | 05-03-1384 | WDMT BASE 30GAL TANK | 1 |
| 17 | 05-10-0878 | PDL 50GAL WIPER | 2 |
| 18 | 06-01-0016 | BOLT .375-16 X 1.00 ZP GR5 | 4 |
| 19 | 06-01-0083 | BOLT .313-18 X 1.00 SS 18-8 | 4 |
| 20 | 06-01-0051 | BOLT .250-20 X 1.00 SS 316 | 6 |
| 21 | 06-01-0042 | BOLT, .375-16 X .750 18-8 SS | 10 |
| 22 | 06-02-0017 | NUT FULL .313-18 SS 18-8 | 4 |
| 23 | 06-03-0007 | NUT NYL LOCK .250-20 SS 18-8 | 6 |
| 24 | 06-04-0003 | WSHR LOCK SPLT .375 ZP | 4 |
| 25 | 06-04-0010 | WSHR LOCK SPLT .313 SS 18-8 | 4 |
| 26 | 06-04-0008 | WSHR LOCK SPLT .375 SS 18-8 | 10 |
| 27 | 06-05-0002 | WSHR FLAT .250 X .625OD SS 18-8 | 6 |
| 28 | 06-07-0029 | HOSE CLAMP ONE EAR, .716-.827 | 1 |
| 29 | 06-07-0030 | HOSE CLAMP ONE EAR 1.004-1.126 | 1 |
| 30 | 06-09-0075 | KNOB WING LATCH | 1 |
| 31 | 06-09-0076 | KNOB WING CAM | 1 |
| 32 | 06-10-0001 | SEAL RBBR BULBS CHAR .500 X .250 | 1 |
| 33 | 06-12-0011 | RIVET POP .188 X .750 GRIP SS | 2 |
| 34 | 1022B2 | DRAIN HOSE PUMP STAND | 1 |
| 35 | 102C1B | HOSE TANK TO VLV | 1 |
| 36 | 102EAC | ROD 30GAL DRV | 1 |

COMMERCIAL PUMP STAND

STAINLESS STEEL MIX TANK ASSEMBLY - 60 GALLON (04-03-0173)



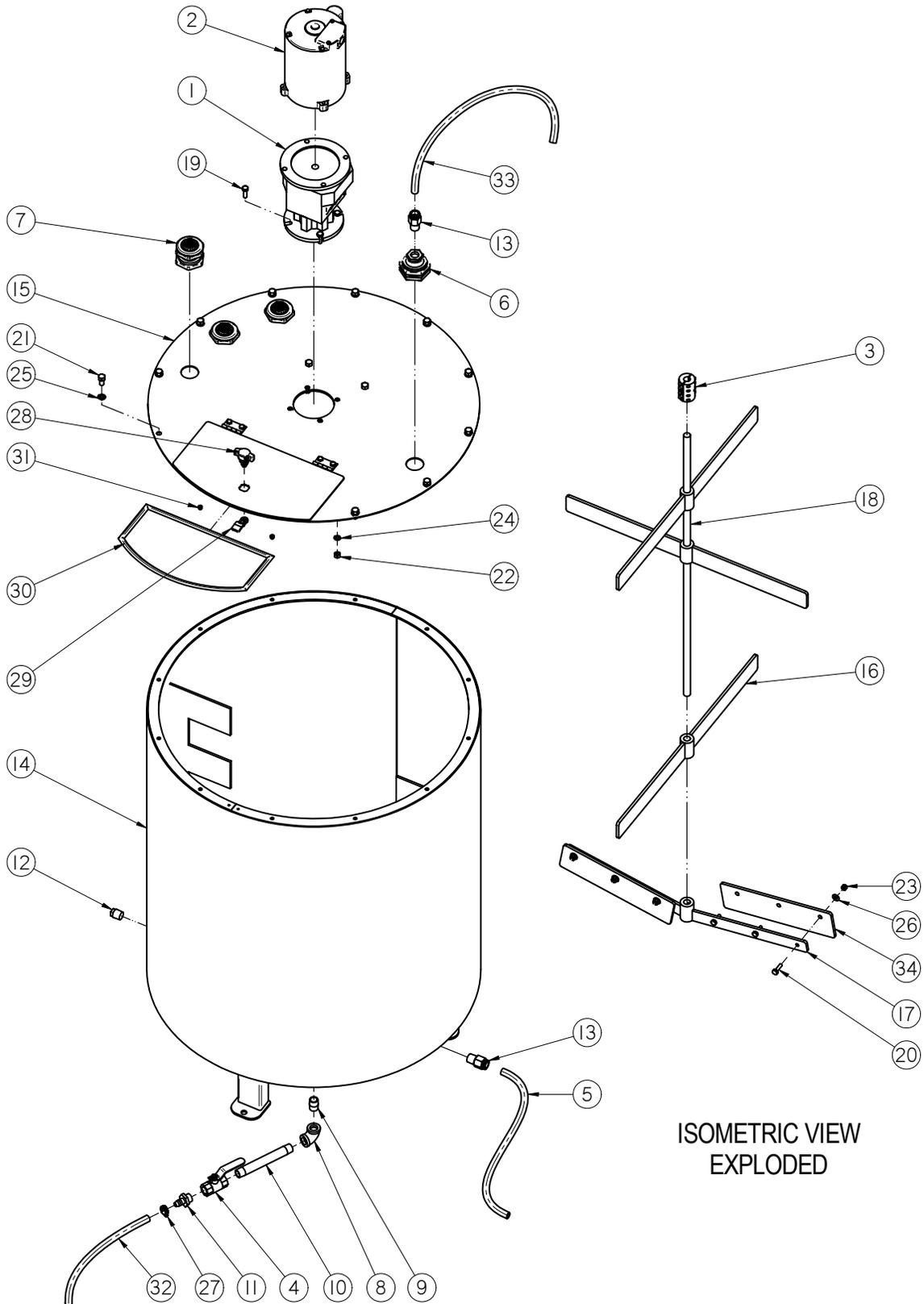
COMMERCIAL PUMP STAND

STAINLESS STEEL MIX TANK ASSEMBLY - 60 GALLON (04-03-0173)

| Item # | Part # | Description | Qty |
|--------|------------|------------------------------------|-----|
| 1 | 01-01-0039 | GBOX IL 61.8:1 56C OTP 56C INP | 1 |
| 2 | 01-01-0104 | MTR .33HP 1725RPM 56C 1PH TEFC | 1 |
| 3 | 01-07-0015 | CPLG CLPN .625 X .750 X 1.50OD SS | 1 |
| 4 | 02-02-0006 | VLV BALL .500 NPT 2WAY BRSS | 2 |
| 5 | 02-05-0028 | FTTG .500 NPT DBL THD PPE BULKHEAD | 4 |
| 6 | 02-06-0012 | ELBOW, .500-14 NPT, 90 DEG. SS | 1 |
| 7 | 02-07-0007 | FTTG NIP .500 NPT X 1.125 TBE SS | 1 |
| 8 | 02-07-0015 | FTTG NIP .500 NPT X 6.00 TBE SS | 2 |
| 9 | 02-08-0007 | FTTG STGHT .500HB X .500NPT ML NYL | 2 |
| 10 | 02-08-0011 | 1/2-14 NPT, 3/4 BARB, STRAIGHT BP | 1 |
| 11 | 02-14-0001 | FTTG PLUG SQHD .500 NPT SS | 1 |
| 12 | 05-03-0069 | WDMT 50GAL MIDDLE STIR ARM | 3 |
| 13 | 05-03-0070 | WDMT 50GAL LOWER STIR ARM | 1 |
| 14 | 05-03-1078 | WDMT BASE 60GAL TANK | 1 |
| 15 | 05-03-1079 | ASSY SS TANK LID 30-60 GAL | 1 |
| 16 | 05-10-0878 | PDL 50GAL WIPER | 2 |
| 17 | 05-11-0341 | ROD 60GAL DRV | 1 |
| 18 | 06-01-0083 | BOLT .313-18 X 1.00 SS 18-8 | 4 |
| 19 | 06-01-00XX | BOLT .250-20 X 1.00 SS 316 | 6 |
| 20 | 06-01-00XX | BOLT, .375-16 X .750 18-8 SS | 11 |
| 21 | 06-02-0017 | NUT FULL .313-18 SS 18-8 | 4 |
| 22 | 06-03-0007 | NUT NYL LOCK .250-20 SS 18-8 | 6 |
| 23 | 06-04-0010 | WSHR LOCK SPLT .313 SS 18-8 | 4 |
| 24 | 06-04-00XX | WSHR LOCK SPLT .375 SS 18-8 | 11 |
| 25 | 06-05-0002 | WSHR FLAT .250 X .625OD SS 18-8 | 6 |
| 26 | 06-07-0029 | HOSE CLAMP ONE EAR, .716-.827 | 2 |
| 27 | 06-07-0030 | HOSE CLAMP ONE EAR 1.004-1.126 | 1 |
| 28 | 06-09-0075 | KNOB WING LATCH | 1 |
| 29 | 06-09-0076 | KNOB WING CAM | 1 |
| 30 | 06-10-0001 | SEAL RBBR BULBS CHAR .500 X .250 | 1 |
| 31 | 06-12-0011 | RIVET POP .188 X .750 GRIP SS | 2 |
| 32 | 1022B2 | DRAIN HOSE PUMP STAND | 1 |
| 33 | 1022C0 | HOSE SOL VLV TO TANK | 1 |
| 34 | 102C1C | HOSE TANK TO VLV | 1 |

COMMERCIAL PUMP STAND

STAINLESS STEEL MIX TANK - 100 GALLON (04-03-0176)



ISOMETRIC VIEW
EXPLODED

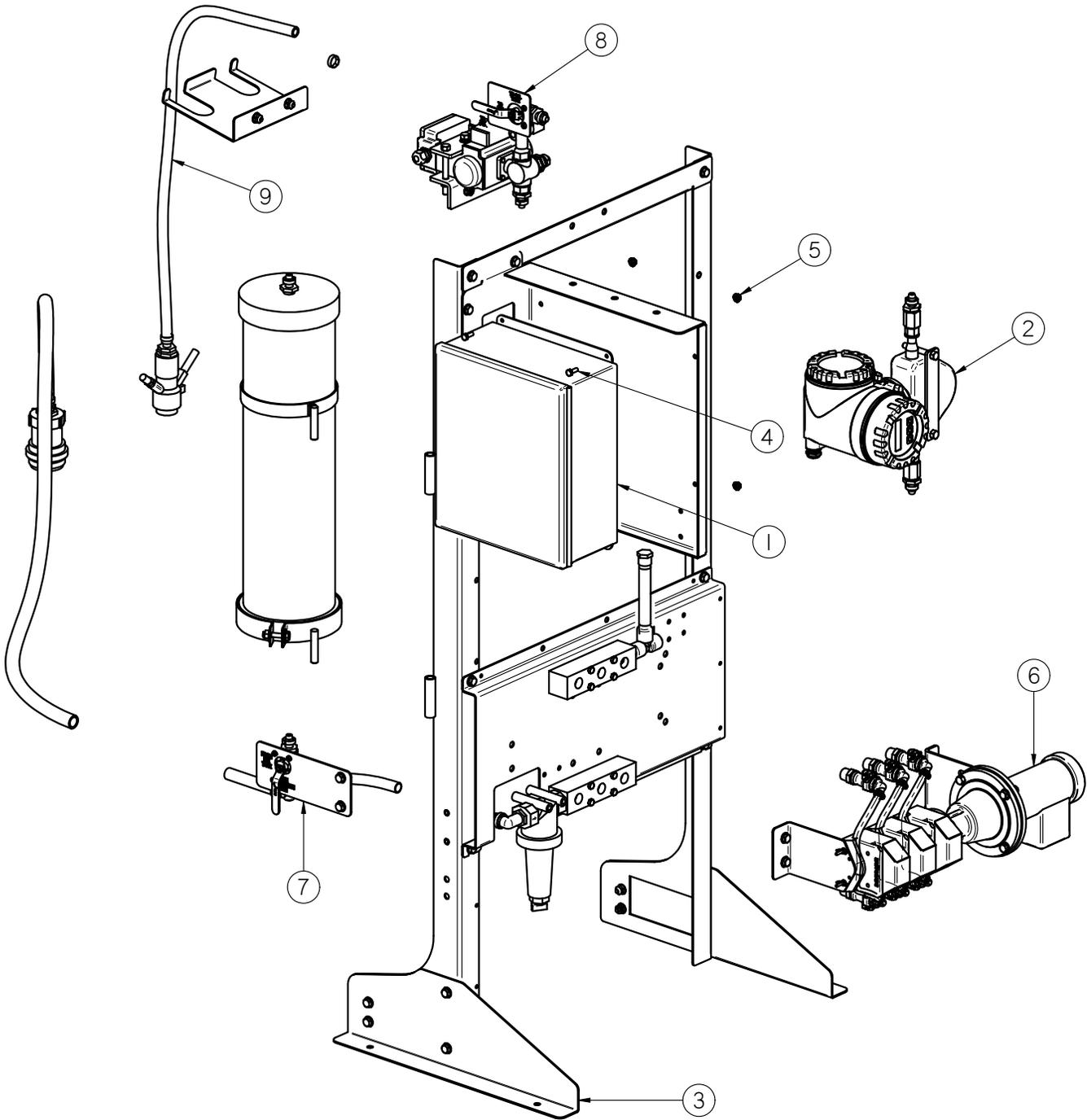
COMMERCIAL PUMP STAND

STAINLESS STEEL MIX TANK - 100 GALLON (04-03-0176)

| Item # | Part # | Description | Qty |
|--------|------------|------------------------------------|-----|
| 1 | 01-01-0039 | GBOX IL 61.8:1 56C OTP 56C INP | 1 |
| 2 | 01-01-0104 | MTR .33HP 1725RPM 56C 1PH TEFC | 1 |
| 3 | 01-07-0015 | CPLG CLPN .625 X .750 X 1.50OD SS | 1 |
| 4 | 02-02-0006 | VLV BALL .500 NPT 2WAY BRSS | 1 |
| 5 | 02-03-0034 | HOSE TANK TO VLV | 1 |
| 6 | 02-05-0028 | FTTG .500 NPT DBL THD PPE BULKHEAD | 1 |
| 7 | 02-05-0045 | FTTG .750 NPT DBL THD PPE BULKHEAD | 3 |
| 8 | 02-06-0012 | ELBOW, .500-14 NPT, 90 DEG. SS | 1 |
| 9 | 02-07-0007 | FTTG NIP .500 NPT X 1.125 TBE SS | 1 |
| 10 | 02-07-0015 | FTTG NIP .500 NPT X 6.00 TBE SS | 1 |
| 11 | 02-08-0007 | FTTG STGHT .500HB X .500NPT ML NYL | 1 |
| 12 | 02-14-0001 | FTTG PLUG SQHD .500 NPT SS | 1 |
| 13 | 02-16-0028 | FTTG PUSH .625OD X .500 NPT ML | 2 |
| 14 | 05-03-1244 | WDMT BASE 100GAL TANK | 1 |
| 15 | 05-03-1245 | ASSY SS TANK LID 100 GAL | 1 |
| 16 | 05-03-1246 | WDMT 100GAL MIDDLE STIR ARM | 3 |
| 17 | 05-03-1247 | WDMT 100GAL LOWER STIR ARM | 1 |
| 18 | 05-11-0341 | ROD 60GAL DRV | 1 |
| 19 | 06-01-0083 | BOLT .313-18 X 1.00 SS 18-8 | 4 |
| 20 | 06-01-00XX | BOLT .250-20 X 1.00 SS 316 | 6 |
| 21 | 06-01-00XX | BOLT, .375-16 X .750 18-8 SS | 10 |
| 22 | 06-02-0017 | NUT FULL .313-18 SS 18-8 | 4 |
| 23 | 06-03-0007 | NUT NYL LOCK .250-20 SS 18-8 | 6 |
| 24 | 06-04-0010 | WSHR LOCK SPLT .313 SS 18-8 | 4 |
| 25 | 06-04-00XX | WSHR LOCK SPLT .375 SS 18-8 | 10 |
| 26 | 06-05-0002 | WSHR FLAT .250 X .625OD SS 18-8 | 6 |
| 27 | 06-07-0006 | CLMP HOSE .500 TO .906 X .313W ZP | 1 |
| 28 | 06-09-0075 | KNOB WING LATCH | 1 |
| 29 | 06-09-0076 | KNOB WING CAM | 1 |
| 30 | 06-10-0001 | SEAL RBBR BULBS CHAR .500 X .250 | 1 |
| 31 | 06-12-0011 | RIVET POP .188 X .750 GRIP SS | 2 |
| 32 | 1022B2 | DRAIN HOSE PUMP STAND | 1 |
| 33 | 1022C0 | HOSE SOL VLV TO TANK | 1 |
| 34 | 102818 | PDL 100 GAL WIPER | 2 |

COMMERCIAL PUMP STAND

COMMERCIAL U-TOTE PUMP STAND ASSEMBLY



COMMERCIAL PUMP STAND

COMMERCIAL U-TOTE PUMP STAND ASSEMBLY

| Item # | Part # | Description | Qty |
|--------|-------------|--|-----|
| 1 | 03-12-0365 | PANEL, CONTROL, LPX AUTOMATED PUMP STAND | 1 |
| 2 | SEE TABLE 1 | FLOW METER | 1 |
| 3 | SEE TABLE 2 | ASSY PUMPSTD FRAME BASE | 1 |
| 4 | 06-01-0006 | BOLT .250-20 X .750 ZP GR5 | 4 |
| 5 | 06-03-0013 | NUT,LOCK, FLG .250-20 ZP SERRATTED | 4 |
| 6 | SEE TABLE 3 | ASSY, PERISTALTIC PUMP HEAD & MOTOR | 1 |
| 7 | 13-04-0106 | KIT CAL TUBE ASSY PUMPSTD | 1 |
| 8 | 13-04-0108 | KIT AUTO CONTROL PUMPSTAND | 1 |
| 9 | 13-05-0359 | KIT FTTG U TOTE | 1 |

TABLE 1

| Part # | Description |
|------------|---------------------------------------|
| 05-03-1067 | FLOW METER, PROMASS, 80E08 DN8 |
| 05-03-1118 | FLOW METER, IMF VOLUMETRIC, SM6001 AE |

TABLE 2

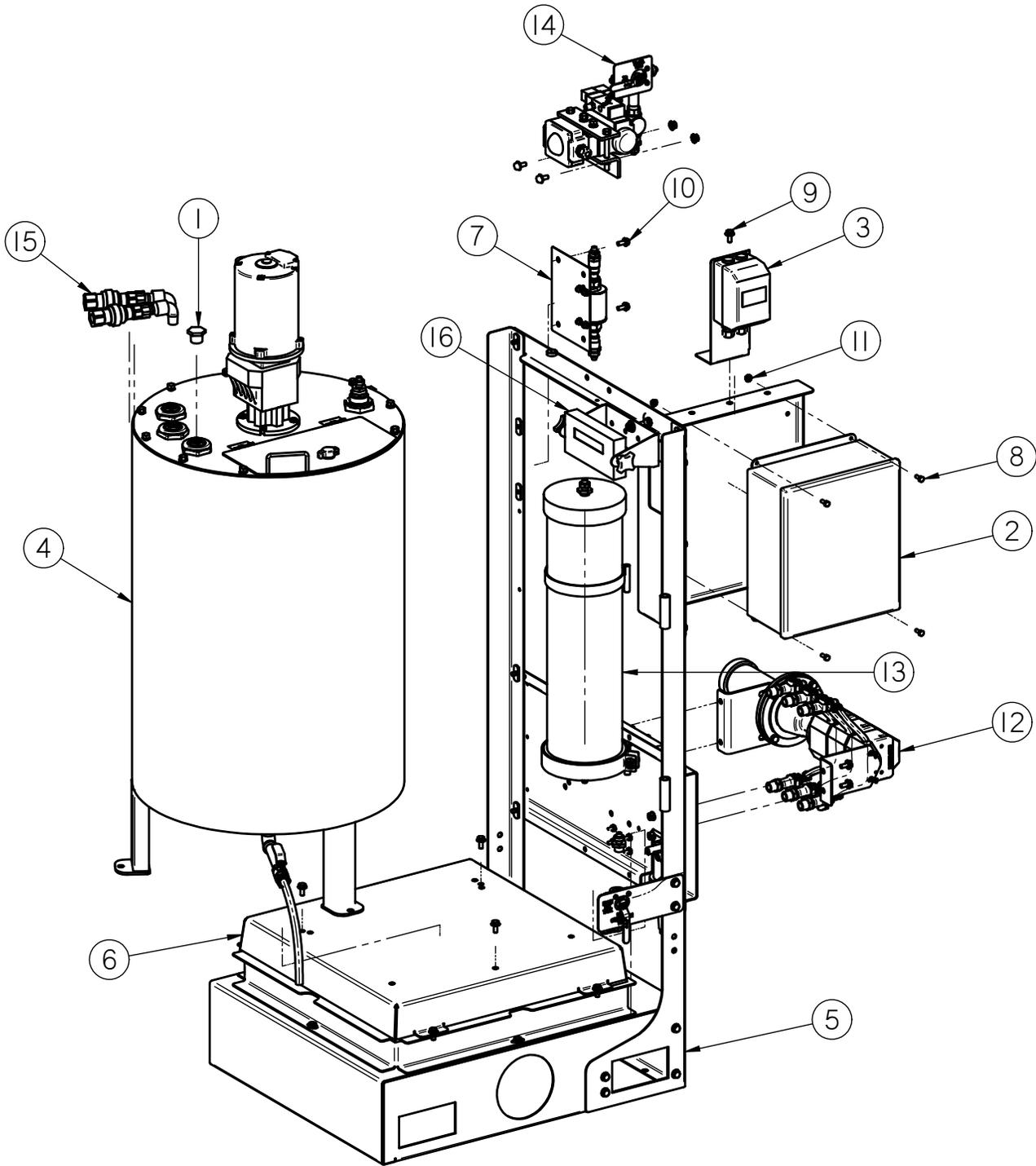
| Part # | Description |
|------------|--|
| 05-03-1376 | ASSEMBLY, PUMP STAND FRAME, SINGLE HEAD PUMP |
| 05-03-1377 | ASSEMBLY, PUMP STAND FRAME, 2 OR 3 HEAD PUMP |

TABLE 3

| Part # | Description |
|------------|----------------------------------|
| 13-04-0103 | 3 PERISTALTIC PUMP HEADS , MOTOR |
| 13-04-0104 | 2 PERISTALTIC PUMP HEADS , MOTOR |
| 13-04-0105 | 1 PERISTALTIC PUMP HEADS , MOTOR |

COMMERCIAL PUMP STAND

COMMERCIAL PUMP STAND ASSEMBLY



COMMERCIAL PUMP STAND

COMMERCIAL PUMP STAND ASSEMBLY

| Item # | Part # | Description | Qty |
|--------|--------------------|---|-----|
| 1 | 02-14-0014 | .750-14 NPT PLUG BP | 1 |
| 2 | 03-12-0365 | COMM PS CNTL PNL | 1 |
| 3 | 03-13-0027 | KIT SW MNL MP .33 HP MTR CHEM TNK | 1 |
| 4 | SEE TABLE 1 | ASSY, MIX TANK | 1 |
| 5 | SEE TABLE 2 | ASSY PUMP STAND BASE | 1 |
| 6 | 05-03-1069 | ASSY SCL PUMPSTD | 1 |
| 7 | SEE TABLE 3 | FLOW METER | 1 |
| 8 | 06-01-0006 | BOLT, .250-20 X .75 UNC ZP GRADE 5 | 4 |
| 9 | 06-01-0124 | BOLT, FLG .375-16 UNC ZP GRADE 5; 3/4" LG | 4 |
| 10 | 06-01-0138 | BOLT, FLG .315-18 UNC ZP GRADE 5; 3/4" LG | 2 |
| 11 | 06-03-0013 | NUT, LOCK, FLG .250-20 ZP SERRATED | 4 |
| 12 | SEE TABLE 4 | ASSY, PERISTALTIC PUMP HEAD & MOTOR | 1 |
| 13 | 13-04-0106 | KIT CAL TUBE ASSY PUMPSTD | 1 |
| 14 | 13-04-0108 | KIT AUTO CONTROL PUMPSTAND | 1 |
| 15 | 13-10-0017 | KIT FTTG CHEM TNK .5NPT PARKER | 2 |
| 16 | PART OF 03-19-0055 | SCALE DISPLAY | 1 |

TABLE 1

| Part # | Description |
|------------|---------------------------------|
| 04-03-0180 | ASSEMBLY, 30 GALLON SS MIX TANK |
| 04-03-0173 | ASSEMBLY, 60 GALLON SS MIX TANK |

TABLE 2

| Part # | Description |
|------------|--|
| 05-03-1155 | ASSEMBLY, PUMP STAND FRAME, SINGLE HEAD PUMP |
| 05-03-1066 | ASSEMBLY, PUMP STAND FRAME, 2 OR 3 HEAD PUMP |

COMMERCIAL PUMP STAND

PUMP STAND ASSEMBLY

| TABLE 3 | |
|------------|---------------------------------------|
| Part # | Description |
| 05-03-1067 | FLOW METER, PROMASS, 80E08 DN8 |
| 05-03-1118 | FLOW METER, IMF VOLUMETRIC, SM6001 AE |

| TABLE 4 | |
|------------|----------------------------------|
| Part # | Description |
| 13-04-0103 | 3 PERISTALTIC PUMP HEADS , MOTOR |
| 13-04-0104 | 2 PERISTALTIC PUMP HEADS , MOTOR |
| 13-04-0105 | 1 PERISTALTIC PUMP HEADS , MOTOR |

USC LIMITED WARRANTY

SECTION H

USC, LLC, (Manufacturer) warrants its seed treating equipment as follows:

1. **Limited Warranty:** Manufacturer warrants that the Products sold hereunder will be free from defects in material and workmanship for a period of 18 months from date of shipment. If the Products do not conform to this Limited Warranty during the warranty period, Buyer shall notify Manufacturer in writing of the claimed defects and demonstrate to Manufacturer satisfaction that said defects are covered by this Limited Warranty. If the defects are properly reported to Manufacturer within the warranty period, and the defects are of such type and nature as to be covered by this warranty, Manufacturer shall, at its expense, furnish replacement Products or, at Manufacturer's option, replacement parts for the defective products. Shipping and installation of the replacement Products or replacement parts shall be at the Buyer's expense.

2. **Other Limits:** THE FOREGOING IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Manufacturer does not warrant against damages or defects arising from improper installation (where installation is by persons other than Manufacturer), against defects in products or components not manufactured by Manufacturer, or against damages resulting from such non-Manufacturer made products or components. Manufacturer passes on to the Buyer the warranty it received (if any) from the maker of such non-Manufacturer made products or components. This warranty also does not apply to Products upon which repairs and/or modifications have been effected or attempted by persons other than pursuant to written authorization by Manufacturer. Manufacturer does not warrant against casualties or damages resulting from misuse and/or abuse of product(s), acts of nature, effects of weather, including effects of weather due to outside storage, accidents, or damages incurred during transportation by common carrier.

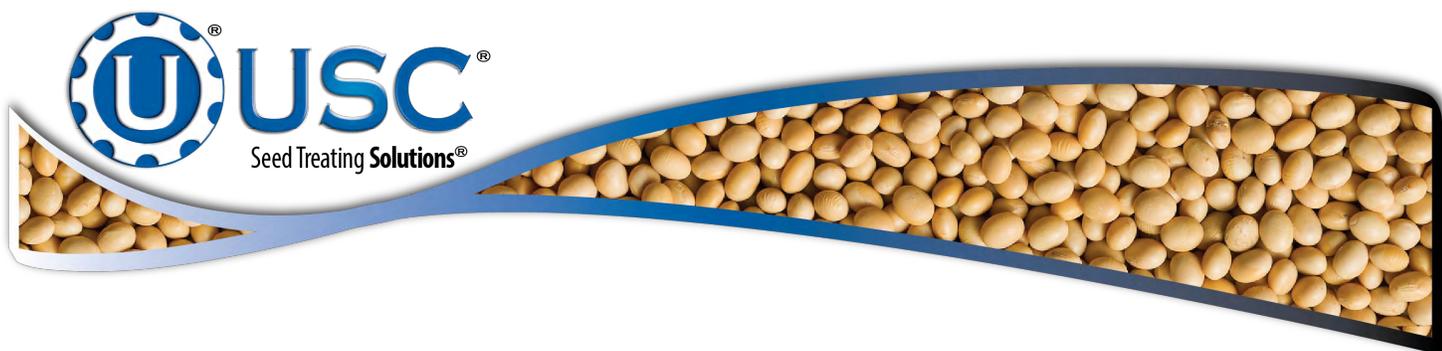
3. **Exclusive Obligation:** THIS WARRANTY IS EXCLUSIVE. The sole and exclusive obligation of Manufacturer shall be to repair or replace the defective Products in the manner and for the period provided above. Manufacturer shall not have any other obligation with respect to the Products or any part thereof, whether based on contract, tort, strict liability or otherwise. Under no circumstances, whether based on this Limited Warranty or otherwise, shall Manufacturer be liable for incidental, special, or consequential damages.

4. **Other Statements:** Manufacturer's employees or representatives' oral or other written statements do not constitute warranties, shall not be relied upon by Buyer, and are not a part of the contract for sale or this limited warranty.

5. **Return Policy:** Approval is required prior to returning goods to USC, LLC. A restocking fee will apply.

6. **Entire Obligation:** This Limited Warranty states the entire obligation of Manufacturer with respect to the Products. If any part of this Limited Warranty is determined to be void or illegal, the remainder shall remain in full force and effect.





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