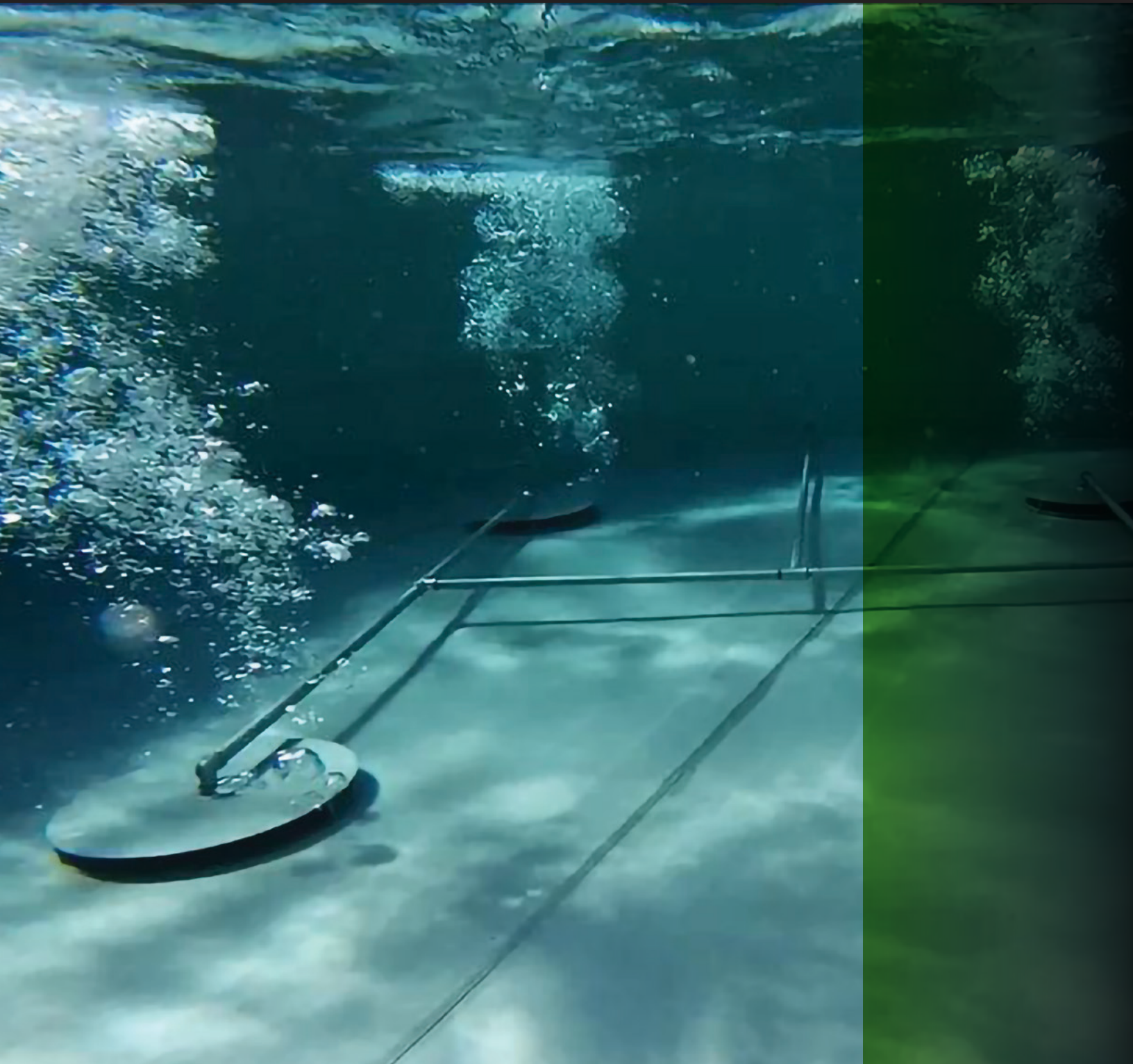




**Novid**  
INC.

*BUILT TO ENDURE*

# **DAS-R INSTRUCTIONS FOR STANDARD AND RETROFIT TANKS**



# DAS-R INSTRUCTIONS

## FOR STANDARD AND RETROFIT TANKS

### CONTENTS

#### PAGE 1 STANDARD INSTALLATION

Comes with the standard DAS-R KIT (Universal 12-18) that directly connects to the ¾" Sight Tube port.

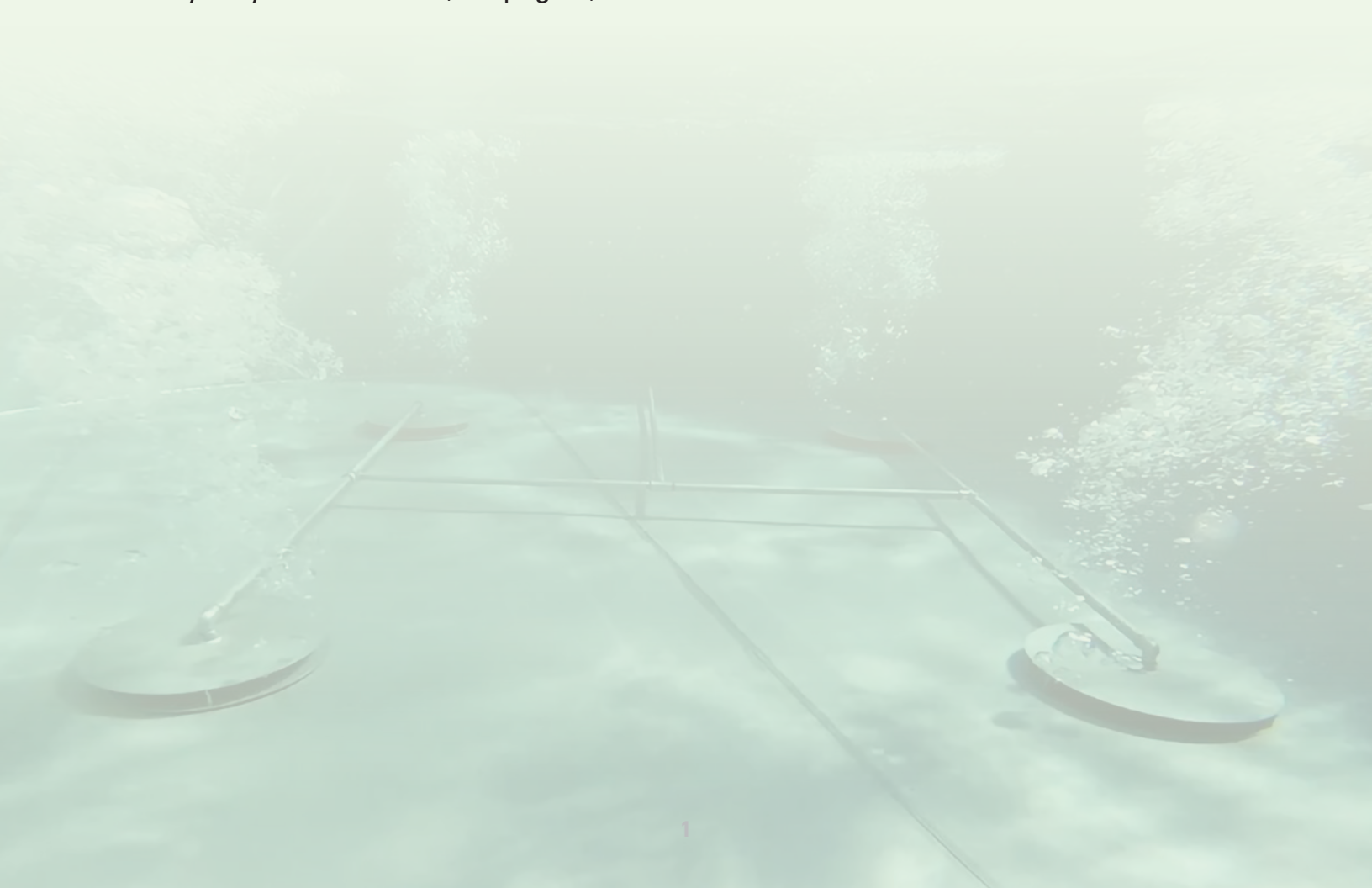
#### PAGE 3 RETROFIT INSTALLATION (3" RETROFIT KIT SOLD SEPARATELY)

Applies to older tank models. Used in conjunction with standard DAS-R KIT (Universal 12-18) and the DAS-R 3" Retrofit Kit that connect to a 3" Fill Coupler port.

#### PAGE 7 OTHER NOTES

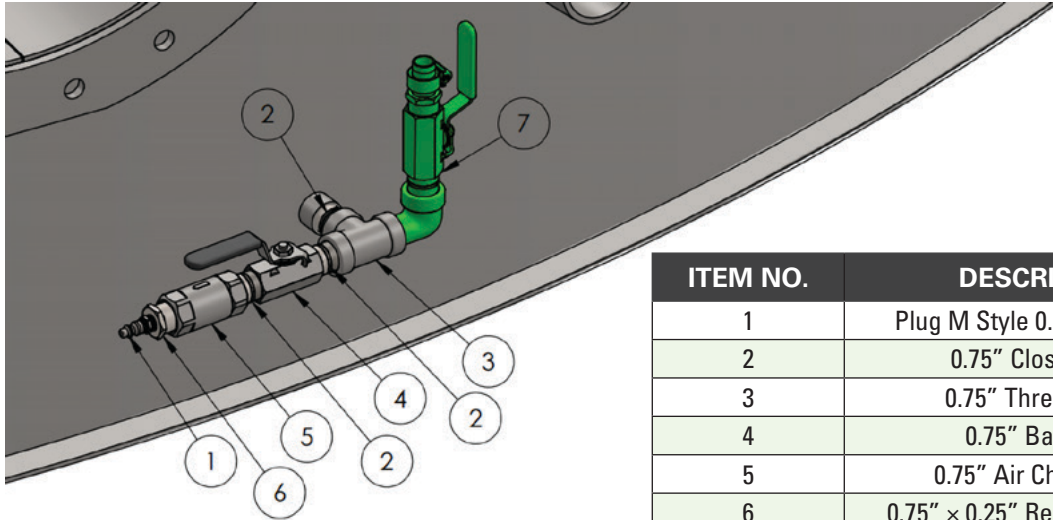
Includes instructions for Control Box Installation, Running the System, Yearly Maintenance Before Use, and Caution Warnings.

**Note:** Running compressed air through the DAS-R mixing plates without the use of the DAS-C control box will not properly mix the tank contents, and should only be done for yearly maintenance (see page 8).



# STANDARD (DAS-R) INSTALLATION

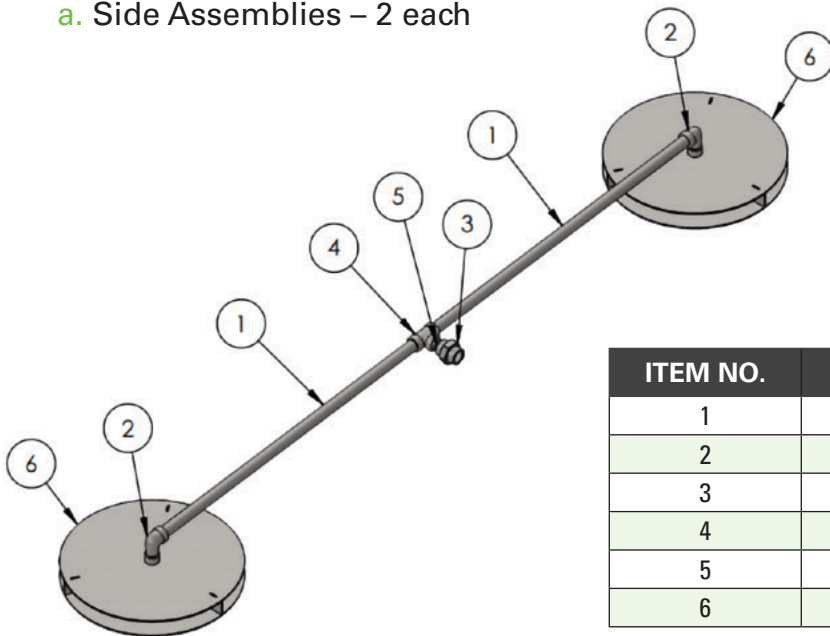
1. Ensure the tank is empty.
2. Install exterior parts (see drawing) starting with parts closest to the tank. Ensure that the arrow on the check valve is pointing towards the ball valve. Note: Always use stainless steel Teflon tape and compound paste on all threads.



ITEM NO.	DESCRIPTION	QTY.
1	Plug M Style 0.25" NPT Male	1
2	0.75" Close Nipple	3
3	0.75" Threaded Tee	1
4	0.75" Ball Valve	1
5	0.75" Air Check Valve	1
6	0.75" × 0.25" Reducer Bushing	1
7	Sight Tube Parts	1

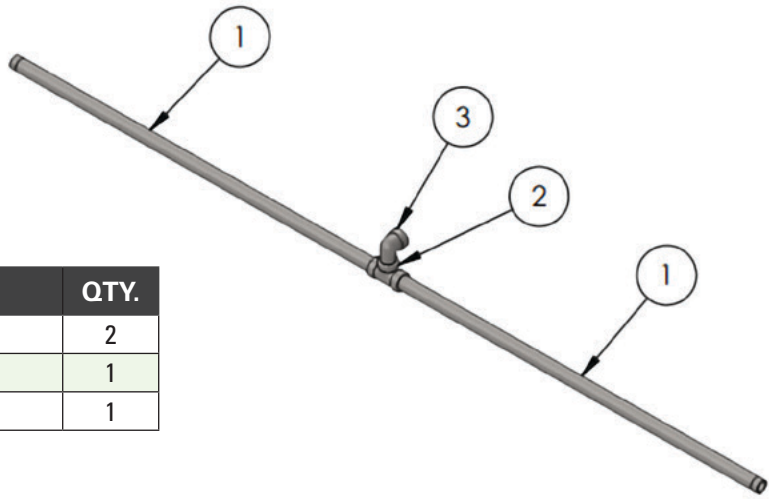
3. Next install the interior parts into sub-assemblies. These sub-assemblies can be assembled outside of the tank. Tighten parts with a pipe wrench. Note: Always use stainless steel Teflon tape and compound paste on all threads.

a. Side Assemblies – 2 each



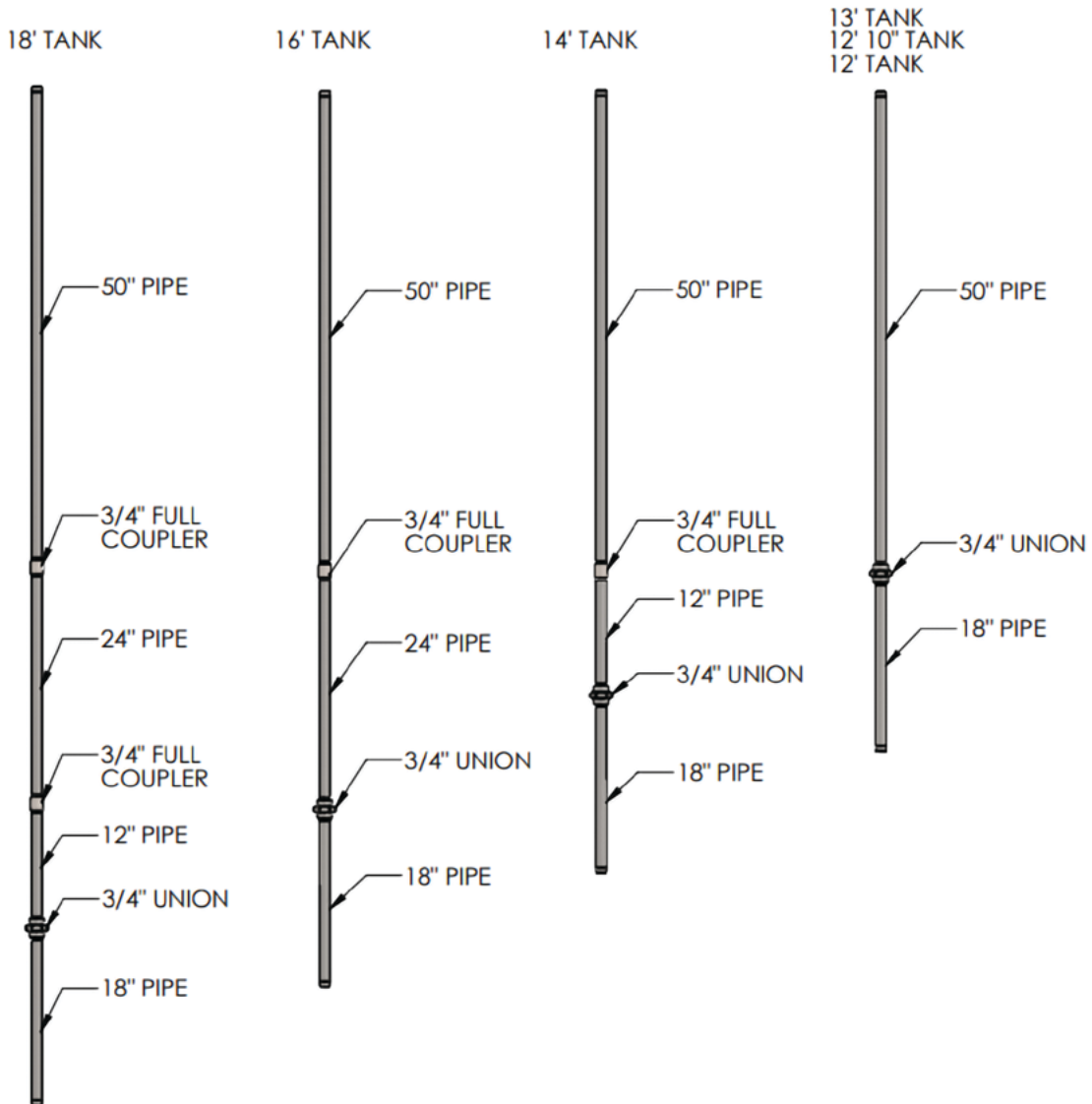
ITEM NO.	DESCRIPTION	QTY.
1	0.75" × 34" Threaded Pipe	2
2	0.75" Street Elbow	2
3	0.75" Union	1
4	0.75" Threaded Tee	1
5	0.75" Close Nipple	1
6	Welded DAS-R Plate Assembly	2

b. Tee Joiner Section – 1 each

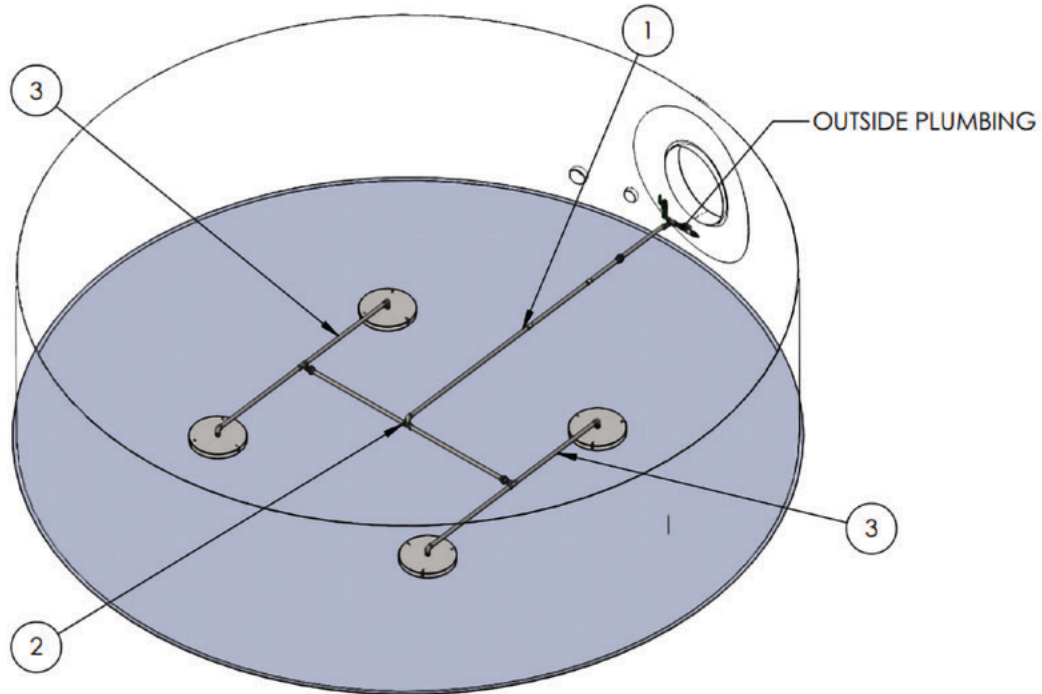


ITEM NO.	DESCRIPTION	QTY.
1	0.75" x 34" Threaded Pipe	2
2	0.75" Threaded Tee	1
3	0.75" Street Elbow	1

c. Center Joiner Section – 1 each (choose the appropriate assembly according to the tank diameter the DAS-R is to be install in)



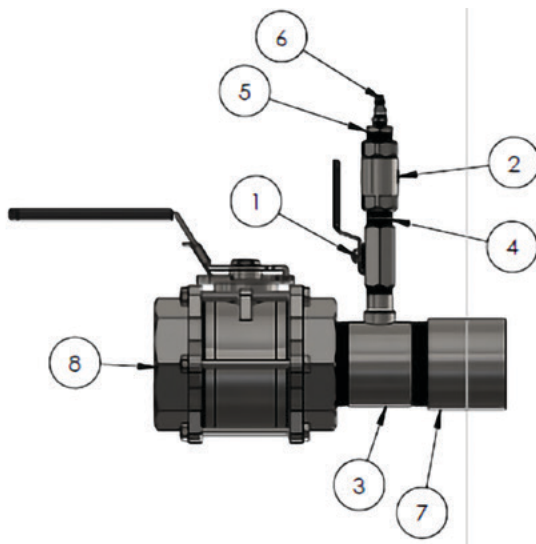
4. Move the sub-assemblies into the tank. Continue to use Teflon Tape and compound paste to install the sub-assemblies as shown starting with the Center Joiner section.



ITEM NO.	DESCRIPTION	QTY.
1	Centre Joiner	1
2	Tee Joiner	1
3	Side Assembly	2

## RETROFIT (DAS-R) – INSTALLATION (3" RETROFIT KIT – SOLD SEPARATELY)

1. Ensure tank is empty, and the tank has had 72 hours to air out.
2. Remove the manway lid, 3" interior PVC fill plumbing, 3" ball valve and close nipple.
3. Install exterior parts (see drawing below) starting with parts closest to the tank. Ensure that the arrow on the check valve is pointing towards the ball valve. Note: Always use stainless steel Teflon tape and compound paste on all threads.

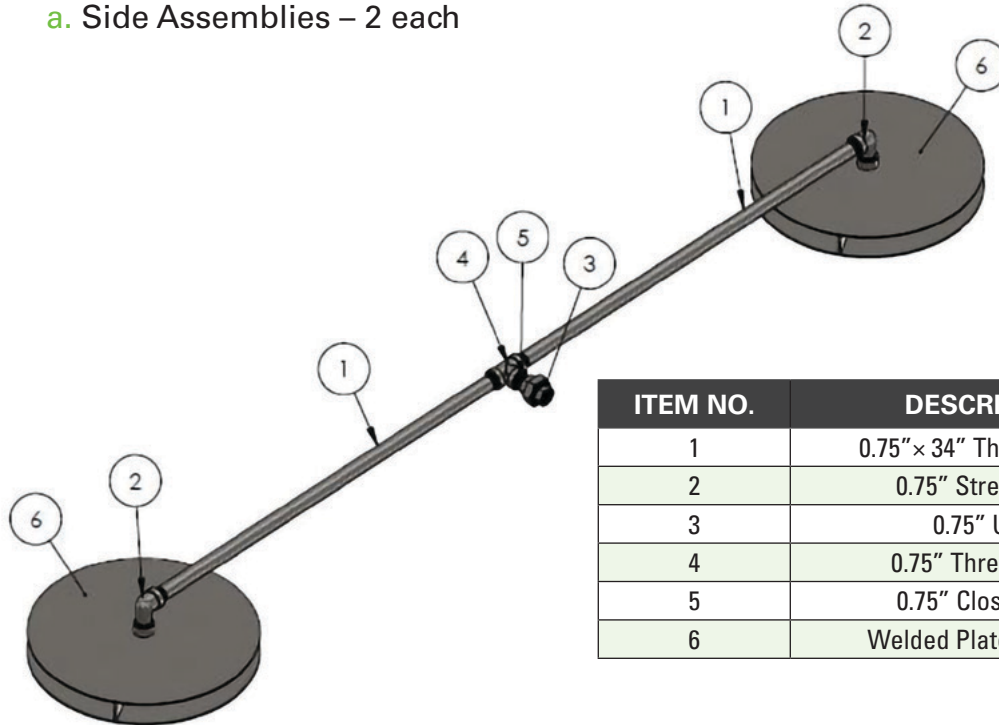


ITEM NO.	DESCRIPTION	QTY.
1	0.75" Ball Valve	1
2	0.75" Check Valve	1
3	DAS-R 3" Nipple Adaptor	1
4	0.75" Close Nipple	1
5	0.75" x 0.25" Reducer Bushing	1
6	Plug M Style 0.25" NPT Male	1
7	3" Fill Coupler (Existing)	1
8	3" Ball Valve (Optional)	1

4. Next install the interior parts into sub-assemblies. These sub-assemblies can be assembled outside of the tank. Tighten parts with a pipe wrench.

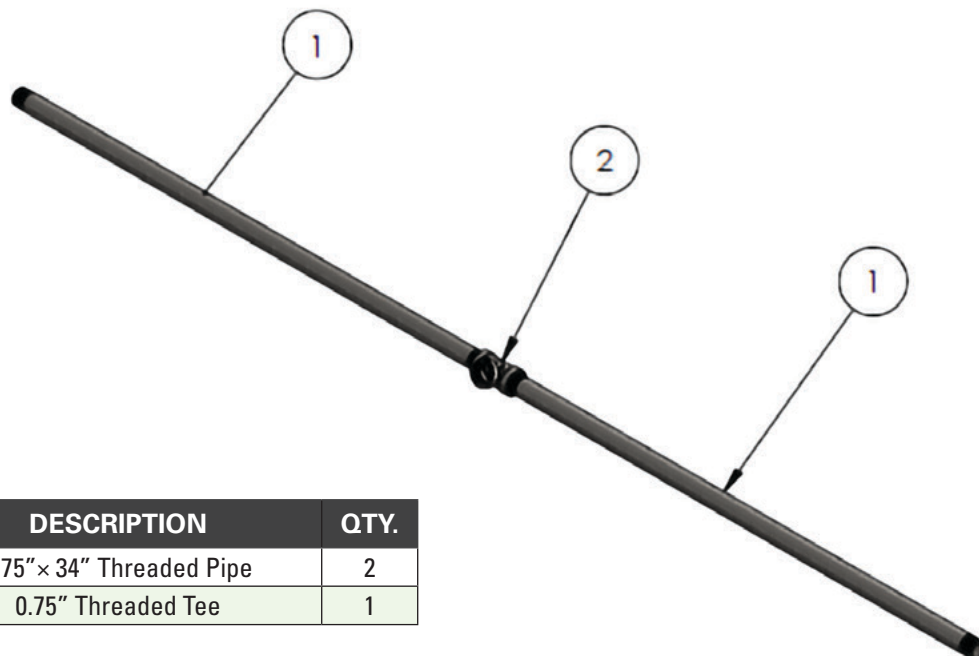
**Note:** Always use stainless steel Teflon tape and compound paste on all threads.

a. Side Assemblies – 2 each



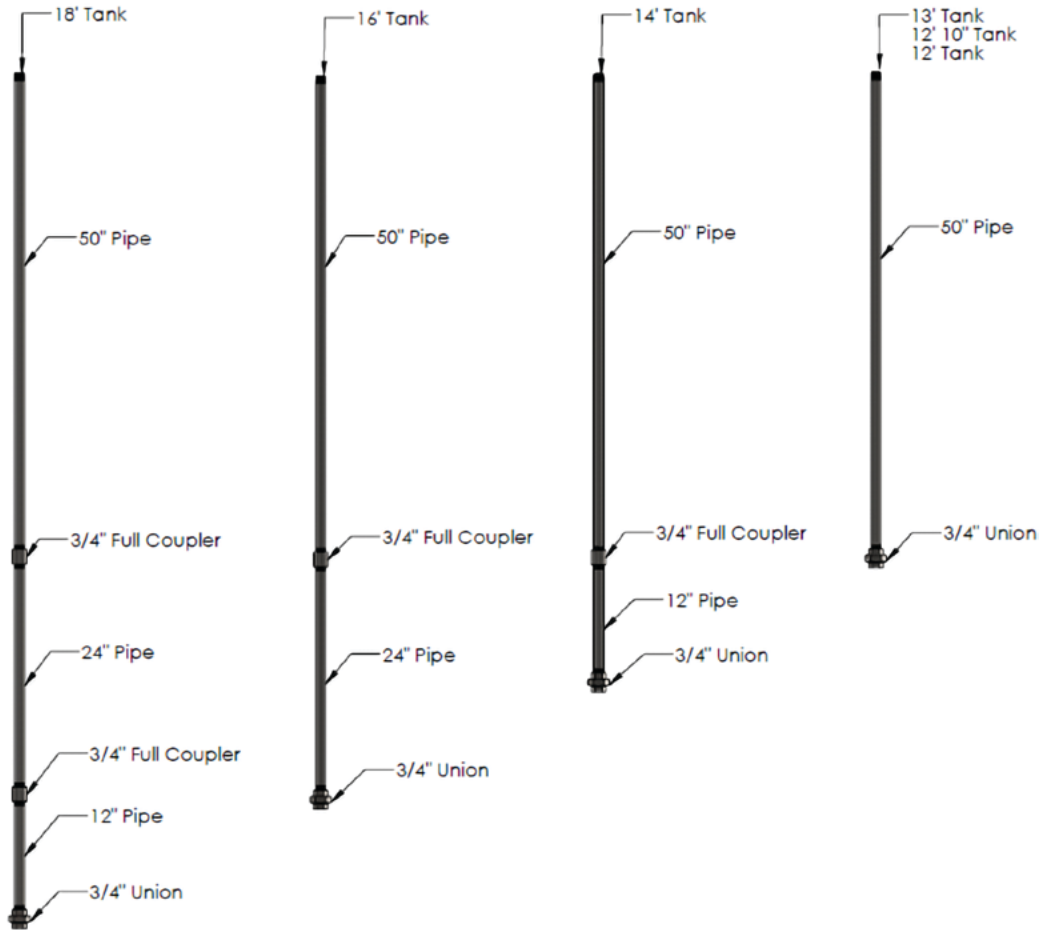
ITEM NO.	DESCRIPTION	QTY.
1	0.75" x 34" Threaded Pipe	2
2	0.75" Street Elbow	2
3	0.75" Union	1
4	0.75" Threaded Tee	1
5	0.75" Close Nipple	1
6	Welded Plate Assembly	2

b. Tee Joiner Section – 1 each

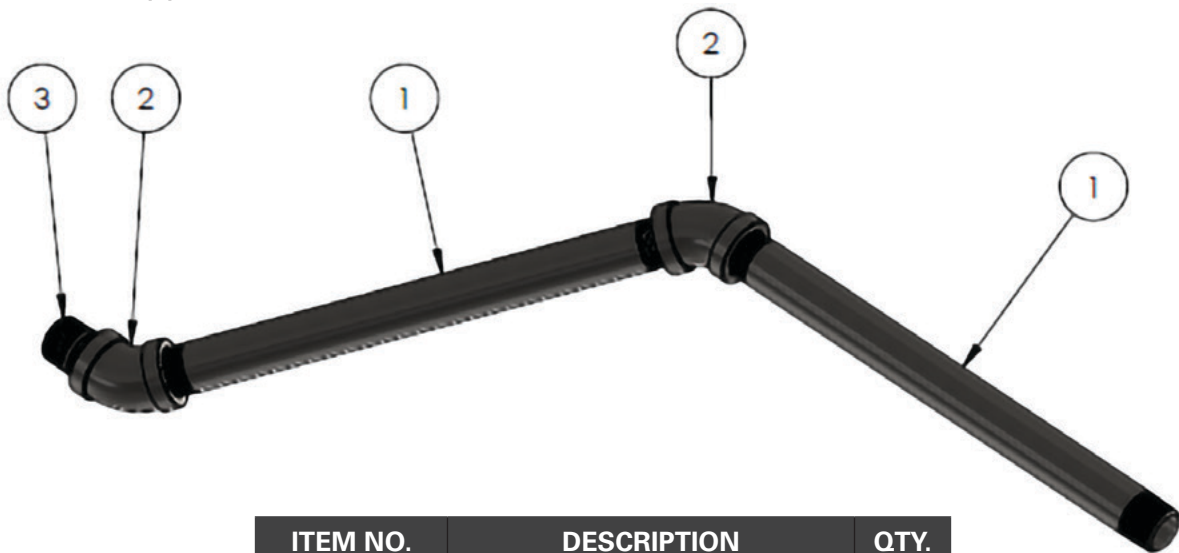


ITEM NO.	DESCRIPTION	QTY.
1	0.75" x 34" Threaded Pipe	2
2	0.75" Threaded Tee	1

c. Center Joiner Section – 1 each (choose the appropriate assembly according to the tank diameter the DAS-R is to be install in)

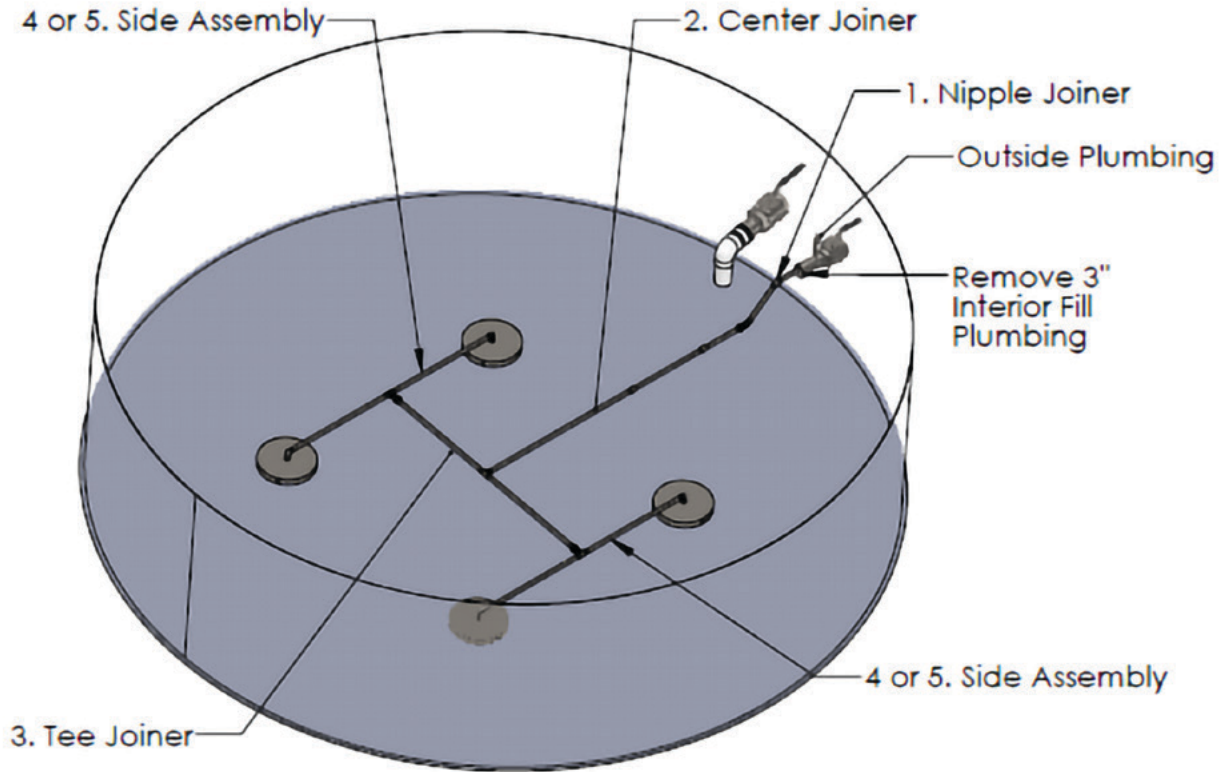


d. Nipple Joiner Section – 1 each



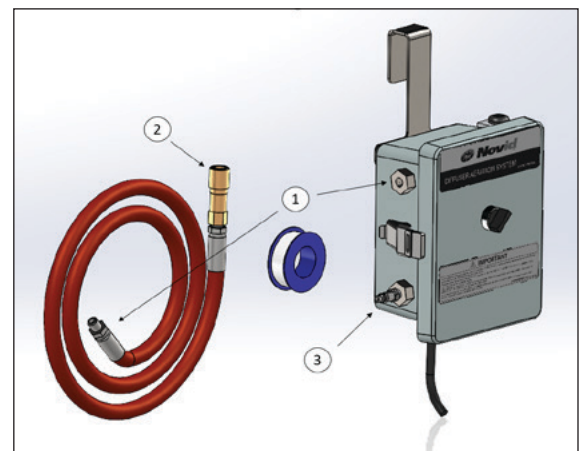
ITEM NO.	DESCRIPTION	QTY.
1	0.75" × 34" Threaded Pipe	2
2	0.75" 45 Degree Elbow	2
3	0.75" Close Nipple	1

5. Move the sub-assemblies into the tank. Continue to use Teflon Tape and compound paste to install the sub-assemblies as shown starting with the Nipple Joiner section.



## INSTALLATION – CONTROL BOX

1. Bolt hanging bracket to the control box and attach the supplied 6' airline to the control box.
2. Hang the box on the manway of the tank for convenience.
3. Connect the 6' airline to the control box (1) and then connect the other end to the air fitting on the tank (2).
4. Plug in the box (make sure the box is turned off).
5. Connect air compressor to the control box (3). Turn on the air compressor. The air compressor should be able to run 4-8 CFM at 100-120 psi (Do not run outside these ranges).
6. Open the  $\frac{3}{4}$ " ball valve that is attached to the check valve (make sure all other valves are closed). Turn on the control box. It will pulse 1.5 seconds on, and 1.5 seconds off.
7. Adjust the CFM gauge on the control box so that it reads between 4-8 CFM.
8. Turn off control box and air compressor, close valves and unplug air lines and power cords.
9. Store control box indoors when not in use.





## RUNNING THE SYSTEM

1. Turn on the pulse box and open the ball valve attached to the check valve (see drawing on page 4). All other valves should be closed.
2. Let the system run for 16-24 hours. Do not leave system running unattended.
3. Turn the system off and close the ball valve.
4. Take a sample of the product and have it tested to ensure it is properly mixed.

## YEARLY MAINTENANCE BEFORE USE

1. Close all valves.
2. Connect airline directly from air compressor to air fitting on tank.
3. Allow the air compressor to build up pressure (120-200 psi).
4. Open the  $\frac{3}{4}$ " ball valve that is connected to the check valve to allow air into the tank.
5. Let air flow for 10 seconds then close the valve.
6. Repeat this process several times to ensure the air ports are clear.
7. Disconnect the air line.
8. Open the  $\frac{3}{4}$ " ball valve that is connected to the check valve. If liquid leaks out of the air fitting, the check valve may need replacing before use.
9. If all is good, close the ball valve and your system is ready to use.

## CAUTION

10. Always follow proper confined space procedures when entering a tank.
11. Do not exceed 120 psi through the control box.
12. Always ensure that all ball valves are closed before starting system.
13. The tank should not be filled into the roof. If product comes out of the roof vent, stop the system and lower the fluid level.
14. Ensure the roof vent is open and free of debris.
15. After emptying tanks, allow 72 hours with the manyway open for fumes to escape before entering tank.
16. Prolonged use of compressed air without running through the control box is not recommended and will void the tank warranty.



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