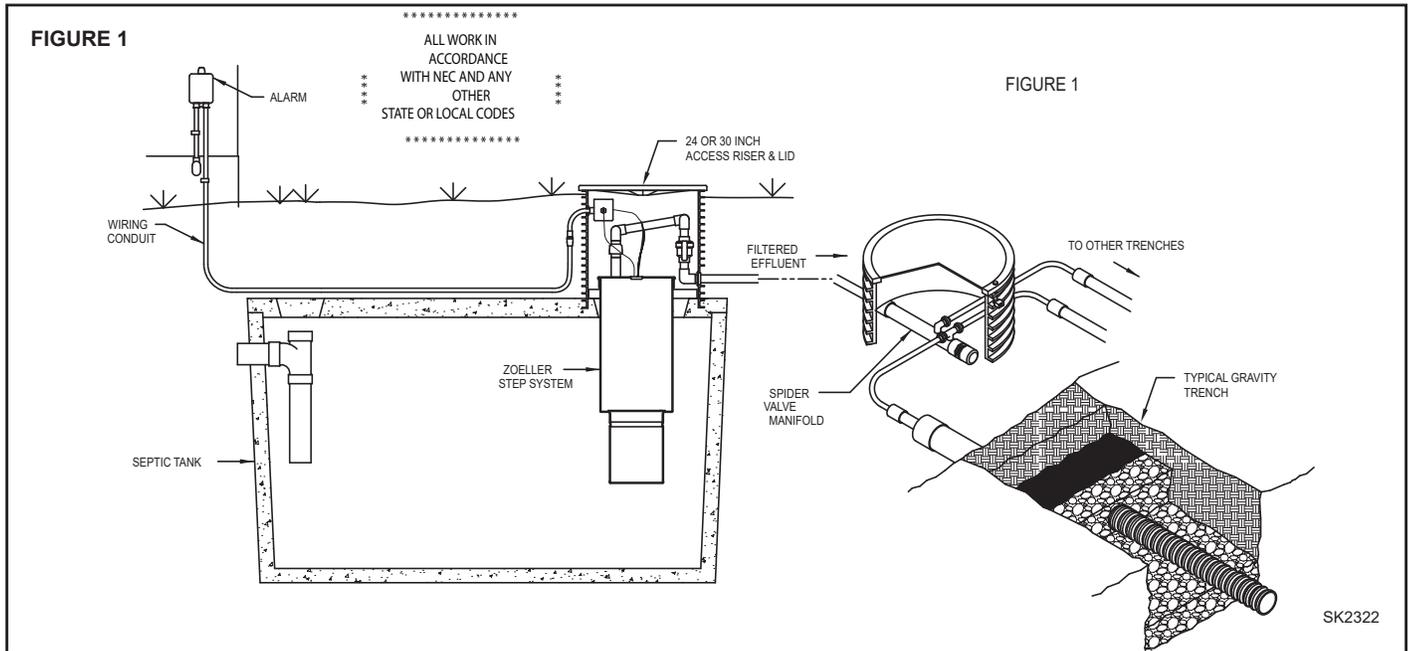


Product information presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inconsistencies.

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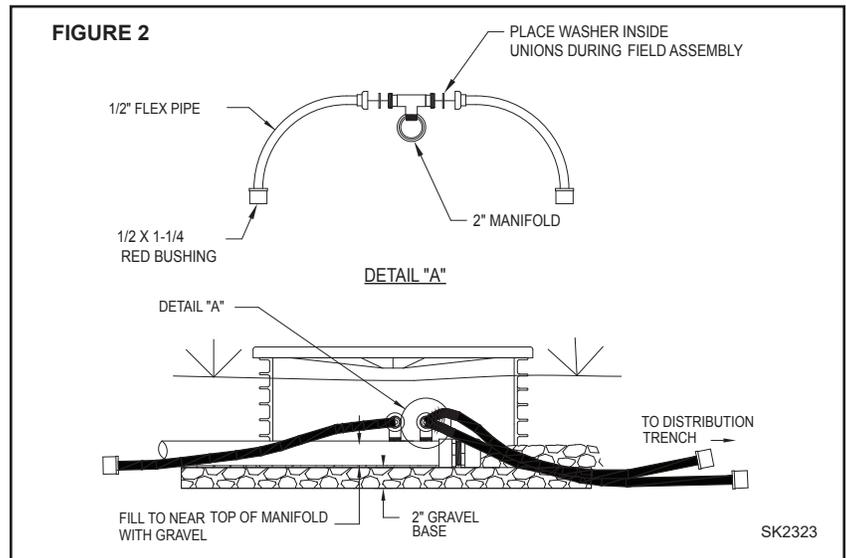
Spider Valve® INSTALLATION INSTRUCTIONS



Installation Steps

1. Spider Valve® assembly must be installed at the high point of the system such that the effluent will gravity drain from the valve to the disposal trenches. Consult site plan and Figure 1.
2. At least 3' of distal pressure should be maintained on the manifold to ensure proper effluent splitting.

NOTE: For sizing help please consult Zoeller Pump Company at 1-800-928-7867 or use the Spider Valve® Orifice Sizing Tool to help design your onsite system at www.zoellerpumps.com



Distal Pressure		Flow (GPM) per Orifice							
Feet*	psi	5/32"	3/16"	7/32"	1/4"	9/32"	5/16"	11/32"	3/8"
3	1.30	0.52	0.75	1.03	1.34	1.70	2.09	2.53	3.01
4	1.73	0.60	0.87	1.18	1.55	1.96	2.42	2.92	3.48
5	2.16	0.68	0.97	1.32	1.73	2.19	2.70	3.27	3.89
6	2.60	0.74	1.07	1.45	1.89	2.40	2.96	3.58	4.26

* The Distal Pressure selected will need to be added to the friction head and static head for the TDH.

Installation Steps, continued

3. For distribution systems with unequal length disposal trench lines, use the chart provided to determine the correct flow rate for the diameter hole that must be field drilled in the flow control washer. Install washers into the unions as shown in Figure 2.
4. For distribution systems with equal length disposal trenches then drill 1/4" diameter holes (or larger) in all washers.
5. The manifold should be installed in a 24" or 30" diameter access riser with lid.
6. Bed manifold area with 2" of pea gravel. Manifold should be installed level.
7. The incoming line should be pressurized with at least 3' of distal pressure. The manifold should be connected to the pump line with a 2" union PVC pipe connection.
8. Outlet pipes contain 3' of flexible PVC pipe with a 1-1/4" diameter connection. Run 1-1/4" or larger pipe away and downgrade from manifold to individual trenches (check local codes).
9. Check that all connections are glued appropriately and watertight. Backfill around manifold with pea gravel until 2" pipe is almost buried. This will ensure the manifold does not move and stays close to level.
10. Place access riser and lid around manifold and finish backfilling. Landscape as desired.

Maintenance Instructions

The Spider Valve® should be inspected and maintained as needed during routine maintenance inspections of the system. Please follow the steps below to properly inspect and maintain the Spider Valve®.

1. Please wear appropriate safety apparel and equipment when maintaining any wastewater component or system.
2. Remove the riser lid to access the Spider Valve®.
3. Locate the 1/2" PVC union connections (see figure 2) and unscrew them one at a time to inspect the flow control washer orifices for debris or obstructions. NOTE: It is important to inspect one union and flow control washer at a time so that flow control washers with different orifice diameters are not mistakenly installed within an incorrect union.
4. If the orifice is obstructed, remove the flow control washer and use a nylon blush to clean it with water.
5. Reinstall the flow control washer within the correct union and reassemble.
6. Repeat steps 3-5 with each union until all have been inspected and cleaned as necessary.

All Zoeller Pump Company products must be installed and maintained in accordance with all applicable codes. Product information presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inconsistencies.



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