



TB 026-2026

Installation instruction revision-use of 1-1/4" fill and vent pipe

Product: Roth DWT double wall tank

Date: January 29, 2026

This bulletin is to address requests from the field to revise the fill and vent pipe sizes required for installation of the Roth DWT products in indoor heating fuel storage applications to 1-1/4" minimum.

For purposes of clarification, Roth's current fill and vent pipe sizing requirements in place are as follows:

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3. The piping connections for the tank are designed for 2" pipe with NPT threads. Although NFPA 31 – 7.5.9 allows the vent pipe to be a minimum diameter of 1 1/4", Roth Industries requires that the vent pipe be 1 1/2" minimum diameter for its complete length to the outside termination. The 1 1/2" piping is required to keep the tank from being over-pressurized during filling. The vent pipe must be the same diameter or larger than the fill pipe.

4. The fill pipe diameter for above ground fuel oil storage tanks under 660 gallon capacity is not specifically addressed in NFPA 31. Minimum fill pipe allowable by Roth for installation of the DWT is 1 1/2" NPT for its entire length to the outside termination. Failure to use 1 1/2" diameter or larger piping for both the fill and the vent piping on the Roth tank will void the warranty.

In order to facilitate this consideration and often times site specific evaluation of reuses of existing 1-1/4" fill and vent piping, we offer the following:

- The fill pipe should be the same size or smaller than the vent pipe (see table on page 2)
- Roth strongly recommends the use of 1-1/2" vent pipe minimum, to avoid excessive back pressure from damaging the tank at the prevailing higher fill flow rates.
- 1-1/4inch vent pipe is acceptable:
 - as long as the total length of the vent pipe does not exceed 10 lineal feet from the point it connects with the tank to the vent cap on the other end of the pipe
 - as long as the fill pipe is 1-1/4inch maximum diameter.
 - as long as the installation under consideration is for a single tank only, not multiple tanks with Roth Expansion Kits or field fabricated combined vents .

If the installed length of the vent pipe from the tank to the vent cap outside exceeds 10 lineal feet, then a minimum 1-1/2" vent pipe diameter should be adhered to. Failure to do so may damage the tank and void the warranty.



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The following is a table to serve as a quick reference for vent vs. fill pipe size.

Vent pipe size	Fill pipe size
1-1/4" (no longer than 10ft) *	1-1/4" only *
1-1/2"	1-1/4" & 1-1/2"
2"	1-1/4", 1-1/2", 2"

* Single tank installations only, not for use in multiple tanks installed with Roth Expansion Kits or field fabricated combined vents.

Always consult with the code officers and inspectors before installing a Roth DWT to be sure you are in compliance with all applicable local codes and have obtained all required permits.

Please direct any questions regarding this bulletin to the Roth Technical Department using the contact information below.