The Acoustic Nozzle is designed to be used with inert fire suppression systems with 1/4 in. to 1 1/2 in. diameter piping, and is available in a 360 degree discharge pattern only.

The Acoustic Nozzle is intended to be used in applications requiring a system discharge generating a lower sound output than a standard suppression nozzle, a primary example being data centers. The acoustic performance of the nozzle is flow rate dependent, meaning that the sound level changes based on the flow rate through nozzle.

The Acoustic Nozzle (Part No. 445710) must be ordered with either an NPT (Part No. 445715) or BSPT (Part No. 27511) orifice pipe assembly with the orifice drill diameter derived from system flow calculations.

## CAUTION

Temporary irritation (itching) or redness may occur from handling the fiberglass material. Leather or cotton gloves should be worn to protect against irritation while handling the product.

### Installation

The Acoustic Nozzle is provided with an attached 1 1/2 in. NPT (DN40) pipe coupling. This coupling shall be connected to the outlet side of the orifice pipe assembly. The inlet side of the orifice pipe assembly is connected to the pipe network.

When the section of the pipe network to be connected to the nozzle has a diameter less than 1 1/2 in., a reducer should be used to adapt the pipe to the inlet of the 1 1/2 in. orifice pipe assembly (on the orifice plate/inlet side). Similarly, a reducer needs to be used if the pipe size is larger than 1 1/2 in. Figure 1 illustrates an example of a pipe network with a larger pipe size and reducer. The Acoustic Nozzle is connected to the pipe network through the 1 1/2 in. diameter pipe coupling.

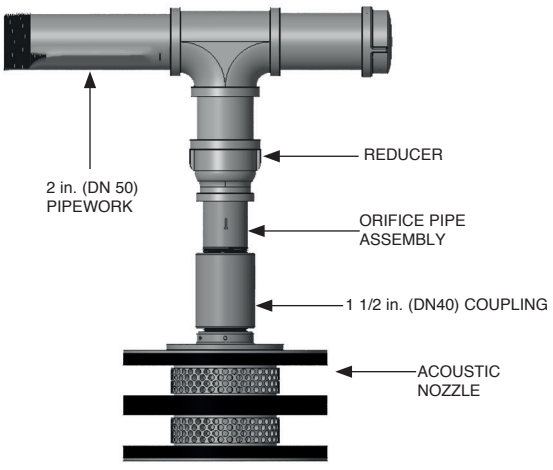


**FIGURE 1**
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The nozzle shall be located so the nozzle side of the coupling is within 305 mm (12 in.) of the ceiling or if installed in a sub floor within 305 mm (12 in.) of the underside of the floor tile and shall be located centrally in the hazard area (or theoretical volume) it is protecting. Figure 2 and Figure 3 show the nozzle dimensions and the nozzle assembly.

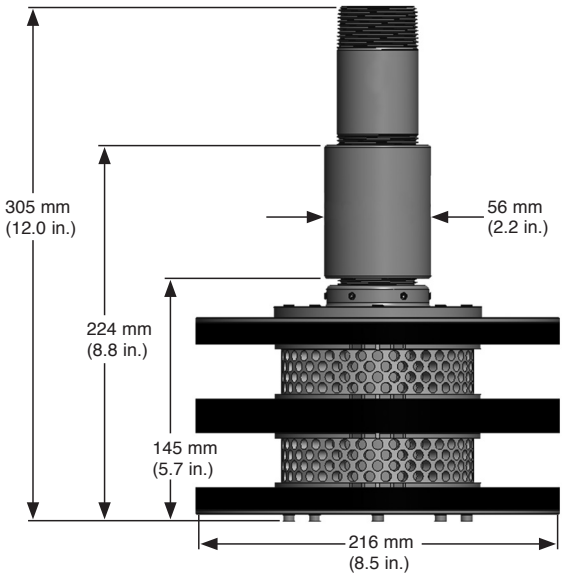


**FIGURE 2**
**DIMENSIONS OF THE ACOUSTIC NOZZLE**
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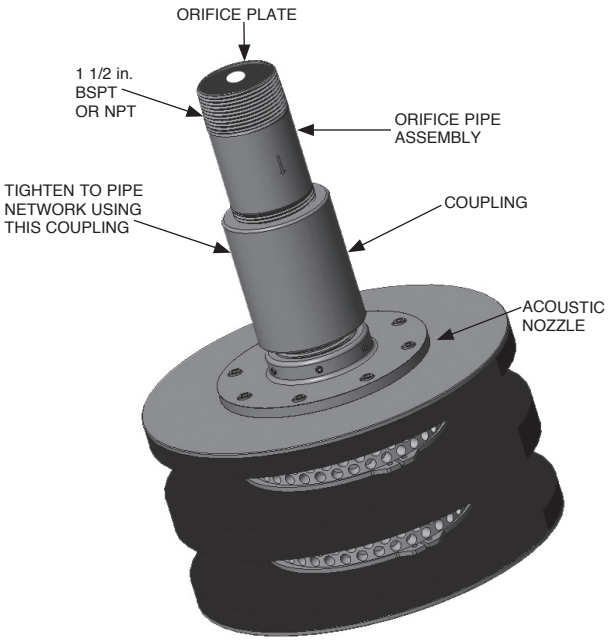


**FIGURE 3**
**ACOUSTIC NOZZLE/ORIFICE PIPE ASSEMBLY**
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