

VOLU-probe, VOLU-probe/SS, & VOLU-probe/VS

MINIMUM INSTALLATION REQUIREMENTS

INSTALLATION CONSIDERATIONS. Installation factors to be considered when applying the VOLU-probe are as follows:

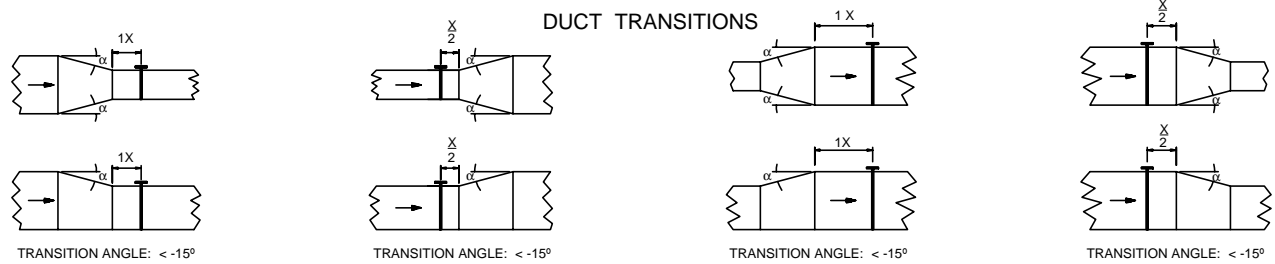
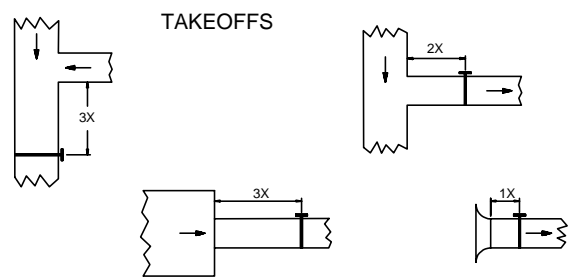
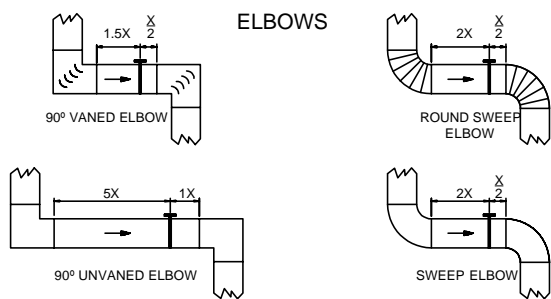
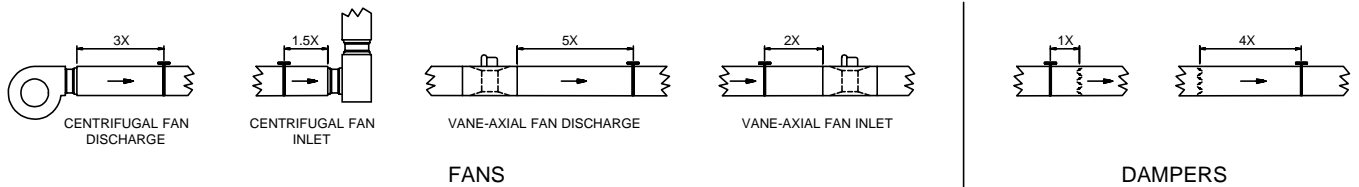
Turbulent Airflow. The unique design of the total and static pressure sensors of the VOLU-probe will permit accurate flow measurement in the presence of moderate air turbulence. The distances from air turbulence producing fittings, transitions, etc., shown below in the Minimum Requirements for Installation, are required to assure accurate VOLU-probe operation.

Stratified Airflow. The VOLU-probe should be mounted so that the probe crosses any stratified airflow - not parallel to the flow. This mounting arrangement will permit the probe to sense the wide range of velocity profiles present in a stratified airflow.

Airborne Contaminants. The levels of air filtration and cleanliness associated with commercial HVAC Systems, whether supply/return/exhaust/outside air, are satisfactory for operation of the VOLU-probe. Industrial applications containing airborne contaminants may require periodic manual or automatic cleaning using compressed air applied to the signal fittings, and/or removal from the duct or stack for physical cleaning.

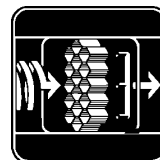
Direction of Airflow. The VOLU-probe will function only with the probe mounted so that the total pressure sensor holes are directed into the approaching airstream. To prevent improper installation, each VOLU-probe is marked with an arrow indicating the required direction of airflow.

MINIMUM REQUIREMENTS FOR INSTALLATION. Note: VOLU-probe locations shown are NOT ideal. They indicate the minimum clearance required from air turbulence producing sources. Wherever possible, the VOLU-probe should be installed where greater runs of straight duct (or clearances) than shown exist.



Rectangular Duct: $x = \frac{2(H \times W)}{H + W}$

Circular Duct: $x = \text{Duct Diameter}$



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