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INSTALLATION GUIDELINES FOR SONOCELLS

For optimum results, a clear sound path between the transducer and zero level of material is required. When selecting and installing the transducer, the following guidelines should be followed:

- Minimum distance from any side wall is one foot for each 10 feet in distance from the face of the transducer to the zero level with a minimum of two feet required.
- Transducer location is opposite the fill stream
- Transducer aiming is toward draw point on solids and perpendicular to surface on liquids.
- Ladders, seams, rebar, etc. in the transducer beam path are to be avoided or eliminated.
- Transducer aiming mounts should be utilized on solids applications.
- Sufficient flexible conduit must be provided at the transducer location to facilitate transducer aiming movement and removal.
- RG62 coaxial cable should be utilized from the transducer location to the signal processor location and should be run in dedicated grounded metal conduit. Transducer cables on the same signal processor may be routed in the same conduit.
- Do not mount the signal processor in direct sunlight unless a sun shield is provided.
- Do not mount signal processor near high power equipment, contactors, SCR drives, 440 V lines, etc.

- Belden 8760 (or equivalent) should be utilized from the temperature sensor location to the signal processor location. This cable can be run in the same conduit as the transducer cable.
- Mount temperature sensor so that an average or representative temperature between the transducer and product is read.
- Insure that the temperature sensor does not come in contact with the measured material under normal operations.

Installation Guidelines for Stand Pipe Applications

- The interior of the stand pipe must be free of burrs and weld beads.
- The edge of the stand pipe may be flush with the interior of the vessel. This edge should be chamfered or rounded on the inside edge.
- The stand pipe must be vertical such that the face of the transducer is perpendicular with the liquid surface.
- The stand pipe should be no higher than 3 inches in height for each inch in diameter, with a minimum diameter of 3 inches. The dimension is taken from the face of the transducer.
- The minimum range must be at least one inch past the end of the stand pipe but still within specified minimum range setting.
- If applied in an agitated vessel, the transducer will respond to the agitator blade if it is stopped and exposed in the beam path.
- For solid applications, a larger diameter stand pipe is required to allow for aiming the transducer.

IMPORTANT INSTALLATION INFORMATION - DO NOT DISCARD

