



PRODUCT BULLETIN

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ROTATING, SLOTTED TUBE SAMPLER

The Slotted Tube Sampler is an industrial sampler for free-flowing materials, including pellets, flakes, granules and powders. Collects accurate samples when mounted on gravity flow pipes, spouts or hoppers. Manual or automatic controller operation. Sizes and capacities determined by your application.

MOUNTING

The sampler is mounted and sealed to the wall of a vertical or angular pipe or hopper with mounting adapters or matching flanges. The sampling tube traverses the product stream and is anchored at the opposite wall where the discharge is located. The sampler should be located close to product entrance. Vertical spouts should run full for most accurate sample. Mounting adapters available for various spout shapes. Factory pre-mounting is recommended.

OPERATION

At the controller's direction (by time, by count or manual), a solenoid rotates the sampling tube 360 deg. The tube (1.90" [48.3 mm] O.D. w 3/16" [4.8 mm] wall thickness) is slotted lengthwise and the slot captures a cross-section of the product stream. Simultaneously, the screw auger inside the tube augers the sample to the discharge point away from the main sample body. The sample is delivered by gravity via flexible metal or plastic tubing to a collection container. Close tolerance (.003") [.07 mm] between tube and auger ensures product clean-out.

CONSTRUCTION

Dust-tight housing is aluminum; sample tube and auger are of heavy gauge stainless steel. Self lubricating oilite bearings. Other construction materials available and used as required by application.

