The Sentry® SA automatic cross-cut sampler automates sampling of dry free-flowing materials such as grain, granules, powders, flakes or pellets in vertical or inclined chutes. A cross-cut sampler captures a cross section of an entire material stream and is used in situations where material segregation exists.

To obtain a sample, the Sentry SA sampler’s air-actuated, pelican-type head moves across the process flow in the chute and deposits it at the discharge. The sample is discharged through a flexible hose to a collection point. Material characteristics are not affected by the sampler because no moving parts convey the sample to the sample container. Sample volume can be changed at the sampler controller.

**MODELS**
SA-A  |  SA-E

**BENEFITS**
With representative sampling, characteristics of each sample match that of the entire lot or batch – so samples are repeatable, leading to accurate sample analysis data. Automatic sampling ensures a sample can be easily and safely obtained with no need for direct human interface or interference. This ensures sample integrity as well as operator safety.

**FEATURES**
- Customized to meet various application needs
- Wetted components are 300 series stainless steel
- White nitrile seals or gaskets
- Kevlar® braided packing
- USDA, Canadian, FGIS and NOPA approved
- Square or round gravity chutes; 2 or 3 inch (51 or 76 mm) diameter discharge tube
- Designed to eliminate the degradation of sample material
- No moving parts in conveyance from sampler to container, keeping material characteristics consistent
- Dust and vapor resistant
- CE and ATEX compliant models available
- Available with pneumatic or electric actuation for flexibility
- Includes air filter, regulator and gauge where applicable
- Adjustable pelican opening available
- Optional wear lining in lower transition
- Optional release coating to ensure a non-stick surface
- QPQ hardening of contact surfaces available to protect against wear and abrasion
- Explosion proof (XP) motor available
- Pre-plumbed filter/regulator and solenoid valve available
SAMPLER DIMENSIONS ARE FOR A 4-8" LINE SIZE

SPECIFICATIONS

- **Materials**: 300 series stainless steel, white nitrile, Kevlar®, aluminum cylinder
- **Particle Size**: 10 µm to 1/4 in (6 mm); larger sizes upon request
- **Temperature Rating**: -20 to 180°F (-29 to 82°C)
- **Air Requirements**: Air pressure of 60 to 80 psi (4.1 to 5.5 bar) recommended; air usage 282 in³ (4,621 cc) per stroke
- **Suggested Connection to Sample Discharge**: Rigid metal or flexible tubing to a collection container or indexing cabinet
- **Inlet Size**: 4 to 36 in (10 to 91 cm) square or round
- **Recommended Sampler Location**: Vertical or inclined spout
- **Quantity of Sample**: Determined by flow rate and aperture size
- **Collection Containers**: PET jar, 304 stainless steel jar
- **Pressure Rating**: ATM
- **Shipping Weight**: Consult Sentry Equipment

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