The Sentry® RPG automatic point sampler automates sampling of dry free-flowing materials such as granules, powders, flakes or pellets from gravity chutes and hoppers. A point sampler captures samples from a point in a process stream and often is used when the material is homogenous.

To obtain a sample, the Sentry RPG sampler’s air cylinder moves a sample probe into the process stream. Once fully extended, an air actuator rotates the sample chamber into the upright position. The air cylinder then retracts the sample tube. The rotary actuator rotates the sample chamber to the down position and the sample material is discharged through a flexible hose to a collection point. Sample characteristics are not affected by the sampler because no moving parts convey the product to the sample container. Sample volume can be changed at the sampler controller.

MODELS
RPG

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
- Tube retracts from the line to avoid any restriction in product flow
- Wetted components are 300 series stainless steel
- White nitrile seals or gaskets
- Urethane wiper seal
- Designed to eliminate the degradation of sample material
- No moving parts in conveyance from sampler to container, keeping product characteristics consistent
- Stroke lengths of 4, 6, 8, 10 and 12 inches (102, 152, 203, 254 and 305 mm)
- CE and ATEX compliant models available
- Includes air filter, regulator and gauge where applicable
- Optional release coating to ensure a non-stick surface
- QPQ hardening of contact surfaces available to protect against wear and abrasion
- Custom mounting adapters for round, square or other shaped chutes or pipes
- Optional sample tube purge
- Pre-plumbed filter/regulator and solenoid valve available
- All stainless housing and rails available
Vertical Line
With Premount

Vertical Line
With Adapter Wrap

SPECIFICATIONS

materials
300 series stainless steel, urethane, nylon, acetal, white nitrile, aluminum cylinder

particle size
10 µm to 1/4 in (6 mm)

temperature rating
-10 to 175°F (-23 to 79°C)

air requirements
air pressure of 60 to 80 psi (4.1 to 5.5 bar) recommended; air usage 32 in³ (524 cc) per inch of stroke for the air cylinder, 17 in³ (279 cc) per inch of stroke for the air actuator

suggested connection to sample discharge
rigid metal or flexible tubing to a collection container or indexing cabinet

recommended sampler location
gravity spouts, hoppers or transfer chutes

quantity of sample
1.5 in³ (25 cc) per cycle for a 4-inch stroke sampler; for each additional inch of stroke, add .82 in³ (13 cc)

collection containers
PET jar, 304 stainless steel jar, bag

pressure rating
ATM

shipping weight
approx. 30 lb (14 kg) for 4-inch (102 mm) stroke to 45 lb (20 kg) for 12-inch (305 mm) stroke

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