SENTRY

The Sampling Connection

ISOLOK® SERIES SAH
EXTENDED STROKE SAMPLER

Collects Flowable Materials from Mixers, Dryers & Reactors

Features

- Collects sample from open processes or from slide or vertical drop chutes
- Single moving part collects 18 cc or up to 50 cc sample volume
- Simple gravity-discharge design for powder, flakes or pellets up to 5/8" (16 mm) size
- Durable 316 stainless steel body utilizes chrome-hardened bore for improved abrasion resistance
- Application-specific seals include FDA-recognized EPDM, polyurethane elastomers and more
- Choice of threaded instrument hub or 2.5″ clamp ferrule for easy installation and maintenance
- Extended-stroke plunger ideal for sample collection inside heavy-body/double-wall vessels

Description

ISOLOK® Series SAH Extended Stroke Samplers features a three-inch plunger stroke to collect samples inside heavy-body or double-wall vessels. An extended body can be utilized to capture free-falling material within chutes or slide applications.

An air cylinder extends a single plunger into open process or flow material, then immediately withdraws, carrying a fixed amount of sample trapped in an annular ring between plunger seals. Process or flow ports are always closed, preventing leaks or product loss. There are no tubes or passages to become clogged. The gravity-discharged sample is transferred directly to a closed container. Sample integrity is maintained while contamination of personnel or facility is eliminated.

ISOLOK® Series SAH Samplers can be used for composite, batch or analysis sampling techniques. Composite sampling is accomplished by obtaining a series of precisely measured material samples at set intervals or adjusted in response to product flow. Samples can be collected in common or individual containers. Batch or analysis sampling in response to immediate need or on-line process control interface is facilitated using single or rapid cycling material withdrawal.

A complete line of programmable automatic controls is available for use in general purpose as well as hazardous environments.

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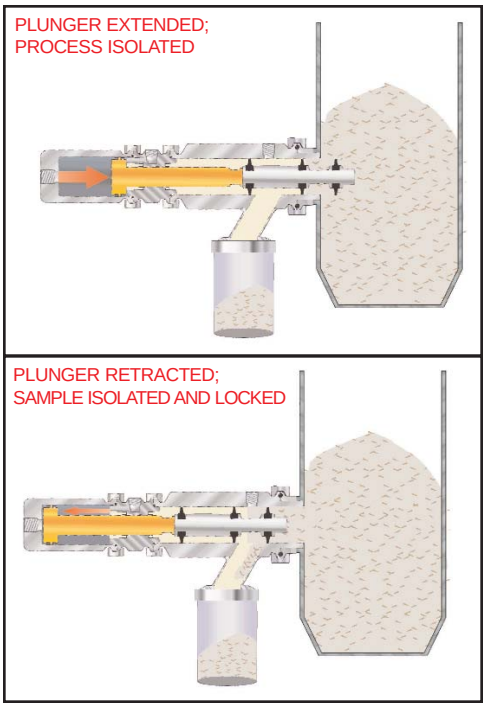
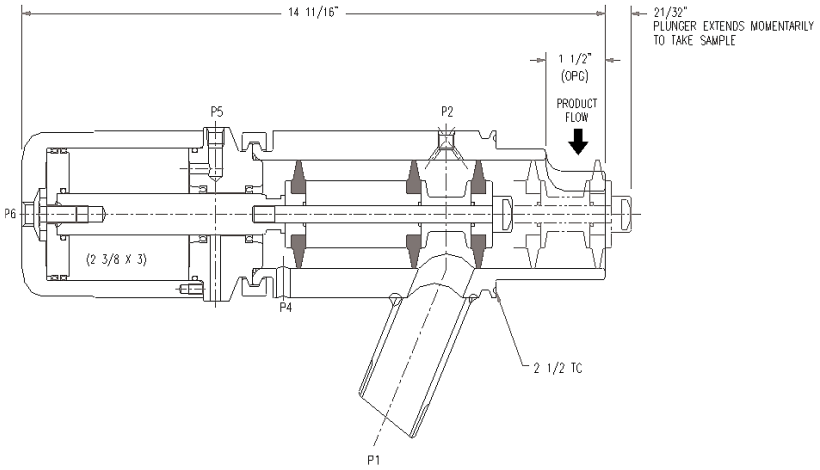
SAMPLING PROCESS



TECHNICAL DATA



SPECIFICATIONS

Sample Volume per Cycle	maximum 1.1 cu. in. / 18 cc or 3.0 cu. in. / 50 cc
Maximum Particle Size	0.34" / 9 mm or 0.625" / 16 mm
Operating Cycle Range	maximum 15 samples / minute
Body Material	316 stainless steel; other alloys available
Plunger Material	316 stainless steel; other alloys available
Plunger Bore x Stroke	.375" x 3" / 35 mm x 76 mm or 1.938" x 3" / 49 mm x 76 mm
Plunger Seal Material.	.filled Teflon, polyurethane, EPDM & others available
Actuator Material	316 stainless steel; other alloys available
Actuator Seal Material	filled Teflon; others available
Static Seal Material	fluoroelastomer; others available
Sample Temperature Range	-275° to 575°F / -170° to 302°C; depending on seal material & duty cycle
Ambient Operating Temperature Range	-5° to 131°F / -20° to 55°C; depending on seal material & cycle controller
Line Mount Adapter Type	3.75" / 95 mm instrument hub or 2.5" / 63 mm clamp ferrule
Compressed Air Requirement	0.67 SCFM @ 30 psi / maximum cycle range
Electrical Requirement, controller	115/230 VAC; 50/60Hz; others available
Overall Dimensions, length x diameter, less accessories1	.4.375" x 6.25" / 365 mm x 159 mm
Net Weight, not including controller or accessories	21 lbs. / 9.5 kg

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