



*The  
Sampling  
Connection*

## **ISOLOK<sup>®</sup> SERIES SAK BULK SOLIDS SAMPLER**



**ISOLOK<sup>®</sup> SERIES SAK SAMPLER**

### ***Gravity Discharge Design Enables Reliable Sample Collection***

#### ***Features***

- Collects samples from slide or vertical drop chutes or direct from open processes
- Single moving part collects accurate and repeatable 18 cc sample volume
- Gravity-discharge design for powder, flakes or pellets up to 11/32" / 9 mm size
- Heavy 316 stainless steel construction features chrome-hardened body bore
- Field-replaceable, application-specific seals include EPDM, polyurethane elastomers and more
- Split-clamped mating ferrules and 2" / 5 cm smooth-bore mounting port facilitate easy installation

#### ***Description***

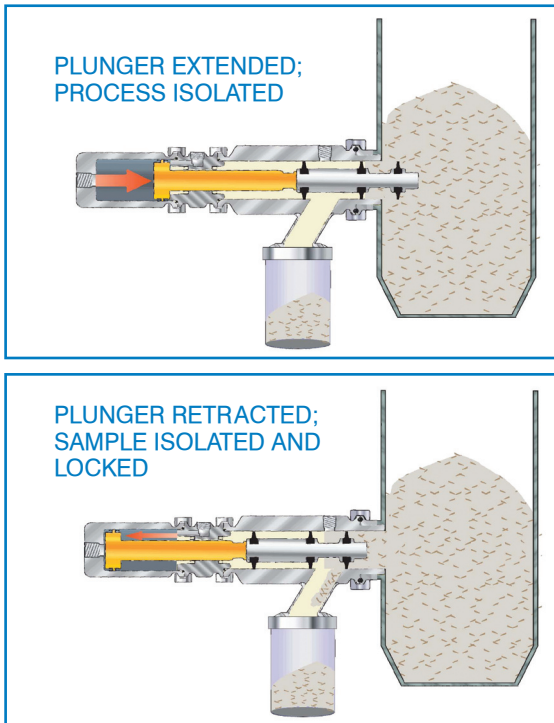
The ISOLOK<sup>®</sup> Series SAK Bulk Solids Sampler provides a simple, reliable means of collecting representative samples of flowable powders, flakes or granules. Materials such as salt, cement, fertilizer, alumina, gypsum, and food products are sampled from process streams at atmospheric pressure. An auxiliary top body port enables air ejection of non-free-flowing materials.

An air cylinder extends a single plunger into the process 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.

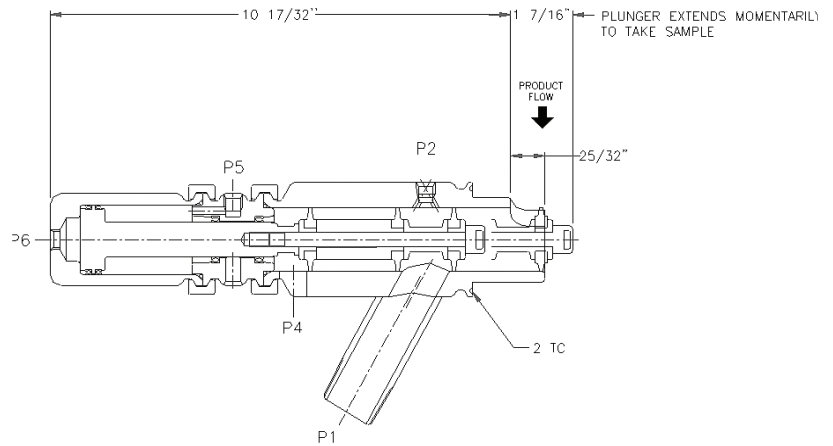
ISOLOK<sup>®</sup> Series SAK Samplers can be used for composite, batch or analysis sampling techniques. Composite sampling is accomplished by obtaining a series of precisely measured material samples at set intervals or adjusted in response to product flow. Samples can be collected in common or individual 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.

## SAMPLING PROCESS



## ISOLOK® SAK TECHNICAL DATA



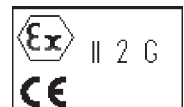
ISOLOK® SERIES SAK SAMPLER

## SPECIFICATIONS

|   |  |
|---|--|
| Sample Volume per Cycle                             | maximum 1.1 cu. in. / 18 cc  |
| Maximum Particle Size                               | 0.34" / 9 mm   |
| Operating Cycle Range                               | maximum 20 samples / minute  |
| Body Material                                       | 316 stainless steel; other alloys available                                |
| Plunger Material                                    | 316 stainless steel; other alloys available                                |
| Plunger Bore x Stroke                               | 1.157" x 2" / 29 mm x 50 mm or 1.375" x 2" / 35 mm x 50 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                  |
| Line Mount Adapter Type                             | 2" / 50 mm clamp ferrule   |
| Compressed Air Requirement                          | 0.60 SCFM @ 30 psi / maximum cycle range                                   |
| Overall Dimensions, length x diameter               | 10.56" x 5.00" / 268 mm x 127 mm   |
| Net Weight, not including controller or accessories | 10 lbs. / 4.5 kg   |

### ⚠ WARNING

It is solely the responsibility of the end-user, through its own analysis and testing, to select products and materials suitable for their specific application requirements, ensure they are properly installed, safely applied, properly maintained, and limit their use to their intended purpose. Improper selection, installation, or use may result in personal injury or property damage.



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