

S SERIES SAMPLING SYSTEMS

Interval Drop Box

Mineral Exploration



Interval Drop Box Specifications

Interval Drop Box

The Interval Drop Box is one of the most important areas of the S Series Sampling System. It must provide an effective seal from the violent vortices created in the cyclone when delivering material to the splitter; create a 100% effective dust seal to atmosphere; deliver material to the splitter without introducing a flow bias in the feed; provide practical storage capacity to simplify the drilling operation and prevent backfilling; and be designed to resist blockage, bridging, hang-up and cross contamination between intervals.

The Interval Drop Box achieves all of the above and has greater storage capacity than any other equivalent drill sampling product without increasing system height.

Interval Drop Box Special Features

1. Patented, pneumatically actuated twin, double-pivot door design.
2. Doors fully isolate material for sampling from high pressure drilling air when closed, ensuring splitting bias from blown sample is removed when collecting & dumping.
3. Doors close on a lead angle, reducing potential for hang up.
4. Designed for wet & dry drill sampling.
5. Door mechanism has no hinges & levers.
6. The unique patented floating seal design allows doors to self adjust to seal even after considerable wear has occurred.
7. Each door is energized by its own pneumatic cylinder which pushes from the middle of the door, providing even force distribution against the machined sealing knife edge.
8. The ends of each door seal against themselves removing the requirement for a central sealing bridge.
9. Provides holding volume to store and dump 2 m sample intervals and greater when drilling with bit diameters up to 6.5" – unrivalled capacity.
10. Increased holding capacity means the potential for system backfilling is dramatically reduced and provides protection to pivot doors.
11. 100% dust seal to atmosphere assured providing protection from dangerous dusts such as silica and asbestos.
12. 60° hopper wall angles and a special non-stick internal liner reduce potential for blockage, bridging, hang-up & cross contamination between intervals.
13. Centrally dumping doors eliminate feed bias to splitter.
14. 60-liter holding capacity with no resulting increase in system height.
15. Inspection windows & quick release clamps provide easy access to internals.
16. A drop-out chamber is built into the top of the Interval Drop Box to allow dust collected by the cyclone to enter even when the top isolation doors are closed, preventing dust carryover and loss of sample during splitting.

SPECIFICATIONS:

Dimensions

900 x 600 x 750 mm

Estimated Weight

110 kg

Max Holding Capacity

60 L

Pneumatic Supply

10 lpm @ 90 psi (approximately)



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