

# SamFreeeglide



**KERSTING** GMBH  
SAMPLING + GROUNDING

The only in-line  
**Powder Sampler**  
guaranteed not to jam





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# SamFreeglide

...the smarter way to sample....



Manually Operated  
Rear: FG-3000M  
Front: FG-1500M



Pneumatic Actuation  
FG-3000A

...the new generation in  
In-line Powder Sampling



## The Challenge

We have spent many years developing the SamFreeglide. This highly innovative device overcomes the problems inherent in other in-line powder samplers:

- It does not jam during use
- It does not alter the physical characteristics of the powder being sampled

## Our Solution

The SamFreeglide is the solution:

- The SamFreeglide is specially designed and engineered so that powder is kept out of the bearings by a special flexible membrane - this means the sampler will not jam
- The sample is collected in a cup and so is not

## Hygienic Applications

The SamFreeglide has been made to the latest Pharmaceutical GMP standards and so is ideal for hygienic applications. The product contact parts of the standard model are: 316 stainless steel, PTFE and silicone rubber (other materials are available on request).

## Robust Construction

The SamFreeglide is exceptionally robust and is suitable for use in a wide range of industries including: pharmaceutical, food, chemical, general industrial and cosmetic.





## Sample Collection

When the Sampling Cup is inverted the product falls down the discharge chute to the collection point.

The Powder Samples can be collected in a number of ways:

- Into a bottle attached using a screw thread adapter
- Into a bag
- Collected using a cassette of continuous tubing which can be sealed and cut between sample collections. (n.b. heat sealers are not available in



PTFE Bottle Adapter - the sample collecting bottle screws into bottle adapter

## Easy to Install

1. Cut a hole in your downpipe
2. Weld the Front Boss to your downpipe.
3. The main body of the SamFreeglide then clamps to the front flange

Note: The SamFreeglide can be easily



## High Containment Sampling

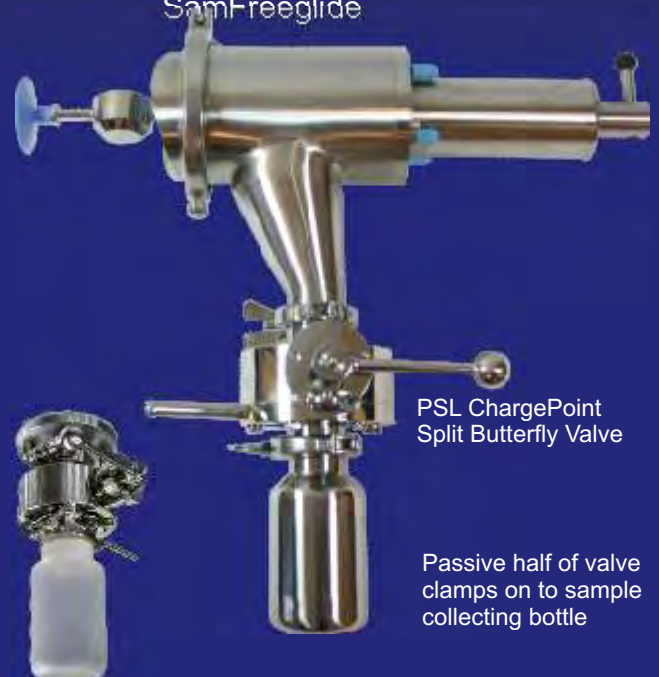
KERSTING can offer high containment sampling through a 50mm high containment Split Butterfly Valve.

- Containment levels of  $< 10 \mu\text{g}/\text{m}^3$  (lower levels can be achieved depending on the product)
- Available in both 316 stainless steel and hastelloy with a range of seals including EPDM and Kalrez®
- Suitable for use with either stainless steel or plastic containers

Transit cover for passive half of containment valve. Ideal protection when moving the container

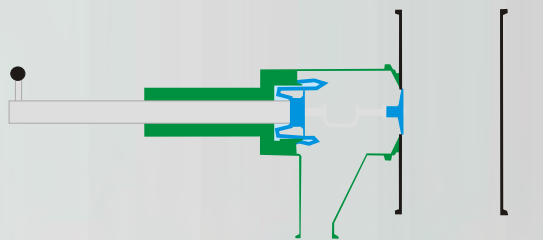


## High Containment SamFreeglide



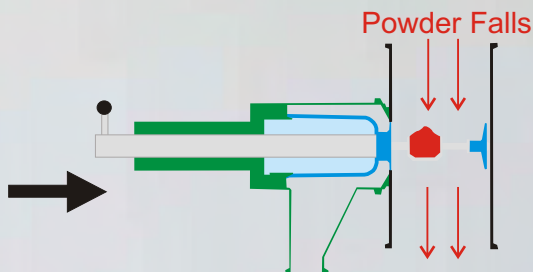
# SamFreeglide ....the best by design

## Easy to Use



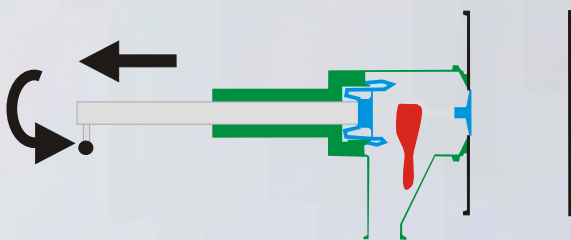
### Resting -

When the FreeGlide™ is not in use the full bore of the downpipe is available for powder flow.



### Sampling -

The sampling cup is extended into the downpipe to catch the product as it falls.



### Discharging -

The sampling cup is then retracted and is then inverted. The powder sample falls down the discharge chute to where it is collected



EPDM - Black

Silicone - Blue

## The Flexible Diaphragm

At the heart of the SamFreeglide is an ingenious flexible diaphragm. The purpose of the diaphragm is to keep powder away from the working mechanisms of the sampler. By keeping the mechanisms clean the sampler will not jam in operation.

*Only the SamFreeglide has the unique flexible diaphragm.  
Only the SamFreeglide is guaranteed not to jam.*



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## Materials of Construction

**Contact parts:** - 316 stainless steel  
- PTFE  
- Silicone rubber, Viton or EPDM

**Non contact parts:** - 304 grade stainless steel  
- Other materials as required.

**Finishes:** All welds ground and polished to surrounding metal standard.

All product contact surfaces are finished to Ra 0.5µm or finer.

**Actuation:** Manual or Pneumatic actuated  
Actuated SamFreeglides are supplied with reed and limit switches so they can be connected directly to your PLC. Please contact us for more info.

**Dimensions:** Please contact us for planning in drawings

| Sizes: | Part No. | Suitability                     |
|--------|----------|---------------------------------|
|        | FG-1000  | 100mm - 125mm diameter pipework |
|        | FG-1500  | 126mm - 249mm diameter pipework |
|        | FG-3000  | 250mm+ pipework                 |



## Suitability:

**Location:** The Free-Glide™ is designed for the collection of powder samples from a vertical downpipe.  
The product needs to be dispersed in air and in free fall

**Pipe Pressure:** The internal pressure differential across the device (inside/outside of the downpipe) needs to be within 0.1 barg of surrounding atmospheric pressure. Ask for advice if greater pressure differentials are required.

**Flexible Parts:** Polymer components are available in the following FDA acceptable materials: Silicone, Viton, EPDM or Perfluoroelastomer

## Further Information

If you are planning a new facility or looking to replace an old sampler please contact KERSTING. We will be able to supply full planning in drawings and quotes by return.

With installations in a wide range of industries around the world we are sure we can help.

## Worldwide Enquires

KERSTING has trained and experienced agents around the world who will be pleased to help with your enquiry.

Please contact us for details on your local dealer.

# LeBlansch

## Bulkhandling Equipment

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