

Grab Sampling for Gas System – by Sharon Sng

Closed loop systems provide a sample that is fresh, extracted and held under the same process conditions that existed at the time of the sample. The precision of your facility's chemical products relies on the ability to collect accurate samples. Grab sampling is one way for your plant to reduce costs iteratively through consistently accurate sample grabs—diminishing product waste. Here are some grab sample modules designated for gas sampling, it can be customised to your needs depending on whether you require a fastloop or purge feature.

1. **GSM-G-1(-N) - Standard Gas Sampler without Purge**

Use:

- General use for gas sampling

Recommended for:

- non-toxic gases and systems when the return is sent to flare



2. **GSM-G-1(-P) - Standard Gas Sampler with Purge**

Use:

- General use for gas sampling. Purge option clears sample gas before and/or after sample collection

Recommended for:

- gases that are toxic or with condensable hydrocarbons
- systems when the return is sent to flare



3. **GSM-G-2(-N) - Continuous Flow Gas Sampler without Purge**

Use:

- General use for gas sampling when continuous flow is required from inlet to outlet.

Recommended for:

- gases that are non-toxic
- samplers installed directly in the sample stream, on a fast loop, or where long sample transport lines are used



4. **GSM-G-2(-P) - Continuous Flow Gas Sampler with Purge**

Use:

- General use for gas sampling when continuous flow is required from inlet to outlet. Purge option clears sample fluid from the sample transport lines before and/or after sample collection.

Recommended for:

- gases that are toxic or with condensable hydrocarbons
- samplers installed directly in the sample stream, on a fast loop, or where long sample transport lines are used



Grab sample systems allow for safe, efficient sample captures—validating your product’s chemical composition. Learn how to improve your closed loop system’s reliability while reducing plant costs with basics from the experts at Swagelok. The basics of Grab Sampling can be read in this [BLOG](#)