

PRIMINOX
OVERSEAS




Closed Loop Sampling Systems

DOPAK® PRODUCT OVERVIEW
Crane Instrumentation & Sampling



v in www.dopak.com
www.cranecpe.com

 +91 - 22 - 67437558

 jigar@priminox.com

 www.priminox.com

DOPAK® Product Benefits

Safe Sampling

Safety is a crucial factor in the chemical, petrochemical and offshore industries. Industrial processes are often complex, products often dangerous and toxic. At Dovianus we understand this complexity and need for high safety levels. Therefore we are dedicated to develop better, safer samplers for our customers.



Benefits of DOPAK® Sampling Systems

- 1 Safe for the operator
- 2 Safe for the environment
- 3 Safe for the sample (representativity)
- 4 Easy one handle operation
- 5 Sustainable
- 6 Low maintenance
- 7 Virtually zero pollution/contamination
- 8 Eliminate spills

Dopak® Sampling Systems

Since the late 1970's, Dovianus focuses on the development, production and marketing of DOPAK® sampling systems. Our high-quality products and expertise are recognized and used by many leading companies in the chemical and petrochemical industry.

We continuously invest in, and build on our sampling expertise and the development of safe sampling systems. DOPAK® sampling systems meet or even exceed safety standards worldwide. Our sampling systems are safe for the operator, safe for the environment and safe for the sample. They protect the operator from coming into contact with the product. Spillage into the environment is avoided and volatile substances can't escape into the atmosphere, while the sample itself is protected from contamination and providing a representative sample.

DOPAK® Product Overview

Sampling in Bottles or Cylinders

There are two types of sample containers for the DOPAK® sampling systems: bottles sealed with cap and septum, and cylinders. What type of container you require, depends on the product properties and the type of sampling system you use.

Sampling in bottles - how it works

In general we advise to use a bottle for samples with a vapor pressure up to a maximum of typically 0.7 bar at ambient temperature. When using a bottle as sample container, the sample is drawn from the process and collected in the bottle at atmospheric pressure. The bottle is sealed with cap and septum for maximum closure. The sealed bottle is inserted into the sleeve until the septum is pierced by the needles of the needle assembly.

Once in position, the product can flow into the sample bottle via the process needle, while air and vapor are being vented by the vent needle. When the required amount has been taken, the operator stops the product flow and the bottle is pulled out of the sleeve. The septum reseals automatically.

In applications where a cap and septum cannot be used, an SBA (Sample Bottle Adapter) can be provided. In this configuration filling tubes are used instead of a needle assembly. This allows for semi-closed sampling.



Sampling in cylinders - how it works

A cylinder can resist vapor pressures of above 0.7 bar. When using a cylinder as sample container, the sample is drawn from the process and collected in the cylinder at process pressure. The sample cylinder has a needle valve and a quick connect coupling at both ends to connect to the sampling system.

Once in position, the product can flow through the sample cylinder. When sampling liquefied gases, partial filling of the cylinder should be ensured.

DOPAK® provides several possibilities to prevent the sample cylinder from being filled for 100% with liquid or liquefied gas. The operator closes the needle valves on the sample cylinder and allows the quick connect to be depressurized through a vent connection. Then the cylinder may be disconnected from the sampler.



DOPAK® Product Overview

What Sampling System To Use?

If your technical and safety requirements are more or less standard, an adaptation of one of our pre-engineered sampling systems could be a solid solution with a quick delivery. These selected samplers are pre-designed and partly pre-assembled and therefore need no further detailed engineering. Please refer to our “DOPAK® Sampling Express” for further details.

For more demanding sampling, our engineers will design a customized sampling system to your precise specifications. What sampler model to use, depends on the properties of the medium being sampled and the conditions of the process involved.

