





DOPAK® DEVELOPS AND

PRODUCES STATE-OF-THE-ART,

HIGHLY FUNCTIONAL SAMPLERS.

DOPAK® HAS BECOMETHE

MOST RECOGNIZED AND RESPECTED

NAME INTHE INDUSTRY

THIS IS A RESULT OF SUPPLYING

AN INTERNATIONAL MARKET

INTHE CHEMICAL AND



PETROCHEMICAL INDUSTRIES.

RECENT DEVELOPMENTS

HAVE LEDTO NEW PRODUCTS

AND APPLICATIONS.

INTHE FUTURE DOPAK® SAMPLERS

WILL BE USED MORE FREQUENTLY

INTHE PHARMACEUTICAL,

FOOD AND BIOCHEMICAL INDUSTRIES

THROUGHOUTTHE WORLD.



#### Introduction to Sampling

Due to the growing complexity of the industrial processes in general and more specific for processes in the (petro)chemical and pharmaceutical industries, the need for tests and analyses increases continuously.

The need for representative samples plays a critical role in ensuring product verification. Yet sampling directly from the process often includes the risks of exposure to the operator, as well as contamination and pollution to the environment. The DOPAK® sampling method reduces such risks with its patented design and simple method of operation.







## **DOPAK Samplers**

The DOPAK® sampling concept is widely used and accepted among the leaders in the chemical and petrochemical industry.

Our track record is easily explained because a DOPAK® sampler solves the problem of taking samples of toxic, dangerous and volatile substances.

With DOPAK® closed vent samplers, the operator is shielded better from contact with the product being sampled. Local spillage can be avoided. Volatile substances are prevented from escape into the atmosphere. Safety in the widest sense is highly improved.





## Benefits

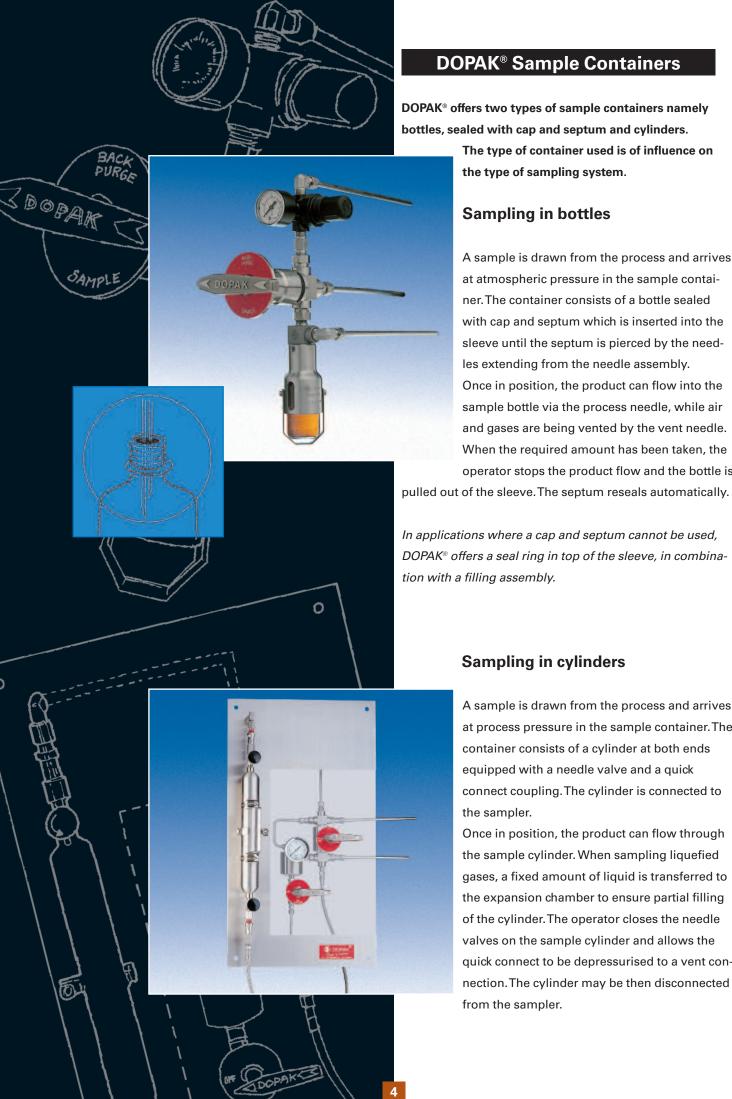
Safer for the operator
Safer for the environment
Safer for the sample (representativity)
Easy operation

Low maintenance
Minimal pollution/contamination
Eliminate spills









#### **DOPAK® Sample Containers**

DOPAK® offers two types of sample containers namely bottles, sealed with cap and septum and cylinders.

> The type of container used is of influence on the type of sampling system.

#### Sampling in bottles

A sample is drawn from the process and arrives at atmospheric pressure in the sample container. The container consists of a bottle sealed with cap and septum which is inserted into the sleeve until the septum is pierced by the needles extending from the needle assembly. Once in position, the product can flow into the sample bottle via the process needle, while air and gases are being vented by the vent needle. When the required amount has been taken, the operator stops the product flow and the bottle is

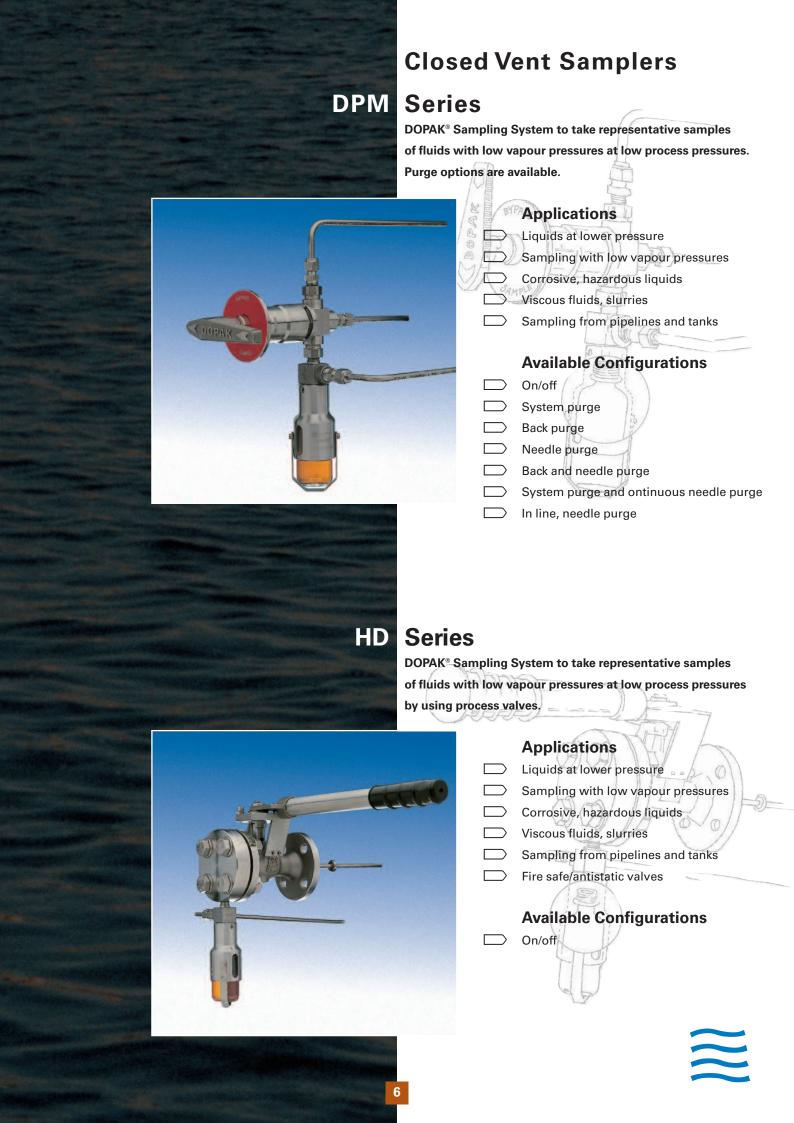
In applications where a cap and septum cannot be used, DOPAK® offers a seal ring in top of the sleeve, in combina-

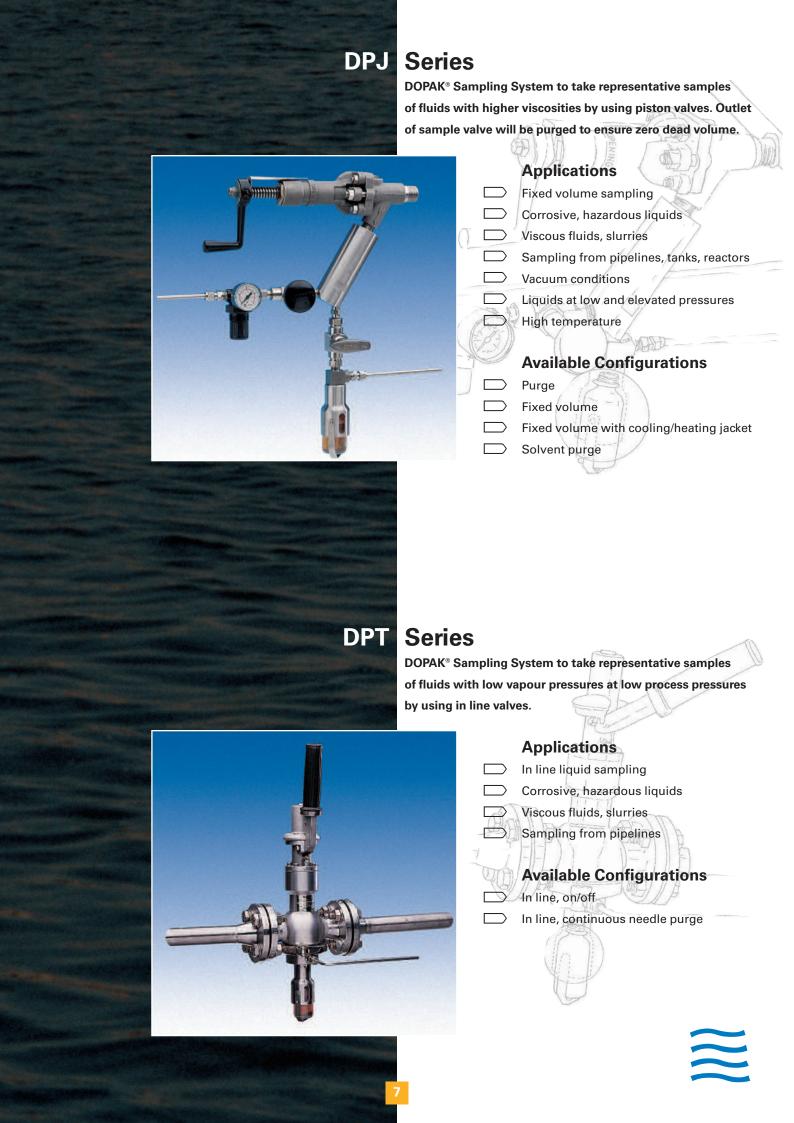
#### Sampling in cylinders

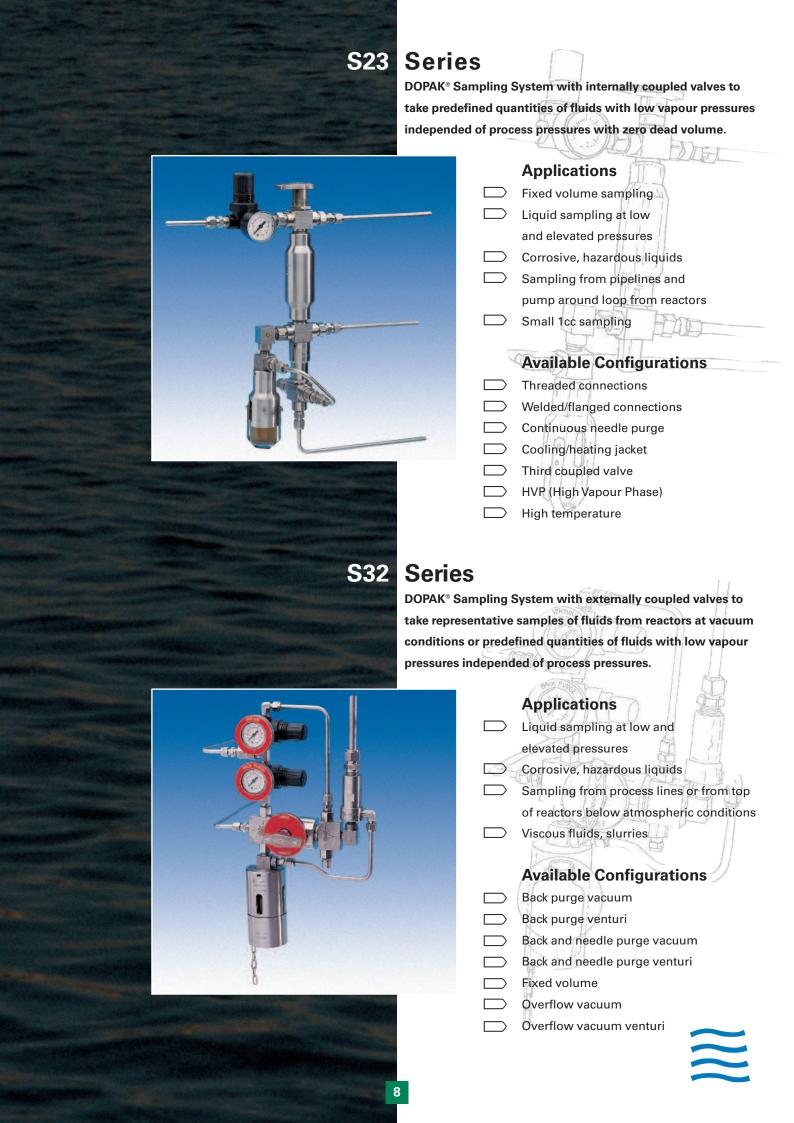
A sample is drawn from the process and arrives at process pressure in the sample container. The container consists of a cylinder at both ends equipped with a needle valve and a quick connect coupling. The cylinder is connected to the sampler.

Once in position, the product can flow through the sample cylinder. When sampling liquefied gases, a fixed amount of liquid is transferred to the expansion chamber to ensure partial filling of the cylinder. The operator closes the needle valves on the sample cylinder and allows the quick connect to be depressurised to a vent connection. The cylinder may be then disconnected from the sampler.

## Introduction to sampling DOPAK® offers a wide variety of standard models and sizes for easy adaptation to current installations. The choice of a sampler model depends upon the nature of the material being sampled and the conditions of the process involved. **DOPAK®** Sampling **Application Open Sampling Closed Vent** Sampling from from storage process lines, tanks, drums, bags, reactors, process lines storage tanks DOPAKCI POPAKCE POPAKCE DOPAKCI DOPAKCE Liquefied Liquids Liquids Gas Solids gas DPM S32-LG S32-G **DPBM DPGM** HD **DPTK** DPVS DPSM-**DPT DPZK** 001 DPSM-DPJ **DPFH** 002 **S23 DPDS Filling** S32 assemblies







# S32-LG Series

DOPAK® Sampling System with externally coupled valves to take representative samples of liquefied gases in cylinders with internal or external outage. Purge options are available.



## **Applications**

- Liquefied gas sampling
- Fixed external outage
  - High vapour pressure liquids
  - Zero quick connect vapour release

#### **Available Configurations**

- System purge
- Vent to flare
- Outage tube
- Purge expansion
  - Bypass purge cylinder
  - Process to flare
- Outage tube with bypass purge cylinder
  - System purge with additional safety expansion cylinder



# S32-G Series

DOPAK® Sampling System with externally coupled valves to take representative samples of gases in cylinders. Purge options are available.



#### **Applications**

Gas sampling

#### **Available Configurations**

- System purge
- Bypass purge cylinder
- Process to flare





DOPAK® proves its worth in your process analysis



Certification applies to
Dovianus BV, Bergschenhoek,
The Netherlands.



#### Dopak Inc.

4540 S. Pinemont, Suite 118
Houston, Texas 77041, USA *Phone* (713) 460-8311 *Fax* (713) 460-8578 *E-mail* info@dopak.com

#### **Dovianus BV**

P.O. Box 76
2660 AB Bergschenhoek
The Netherlands
Phone +31 10 524 20 00
Fax +31 10 524 20 29
E-mail info@dopak.nl

www.dopak.com

