

Bottle Sampling Systems

Sampling volumes 25 - 1000 mL



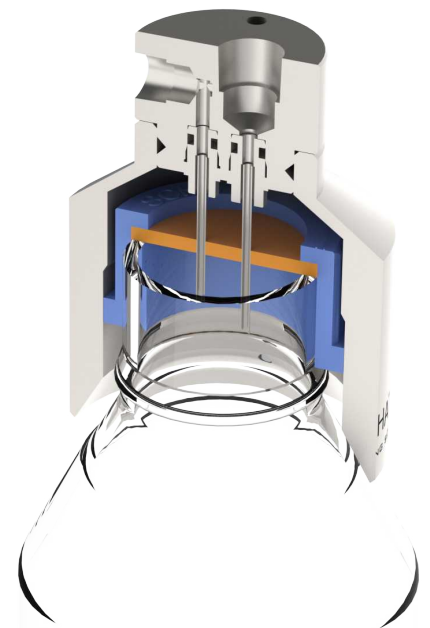
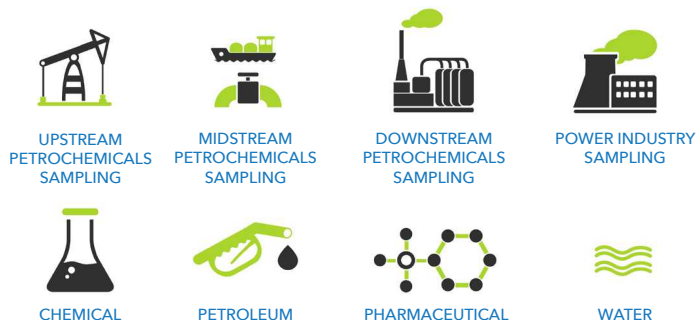
Are you ready to get the best liquid sampling results?

- We guarantee to control your quality, preventing production loss
- Quality improvement by taking representative liquid samples
- Reducing costs by process optimization
- Closed loop design sampling systems, NO WASTE, NO POLLUTION, NO EMISSION

Mechatest designed the most innovative liquid bottle sampler solution on the market, based on standard laboratory sample bottles with GL32 and GL 45 threads, cap and septa.

This typical "needle" bottle sampler for liquids is closed loop and suitable for emission free sampling of toxic, dangerous or volatile liquids. Mechatest's unique liquid sampler is an outstanding answer to other types of liquid samplers but now modular and with a dozen of interchangeable options, it is economical and safer for sample, personnel and environment. Safety begins with you!

INDUSTRIES



Select a type of Valve, Body & Needle and Bottle Holder from the columns below
(other choices available on request)

SAMPLING VALVES



Flanged Valves



Wafer Type In-Line



2-way or 3-way Valves



NeSSI Valves



Flow Thru Valves



Piston Valve

BODY & NEEDLES



Sampler Body Needles



Process Needles



Vent Needles



NeSSI Body Needles



Sampler Body Tube

BOTTLE HOLDERS



GL32 or GL 45 Bottle Holder



Bottle Holder



Safety Sleeve



Screw Bottle Adapter

ACCESSORIES



Spring return handles for instrumentation valves protect personnel and environment from unnecessary sample waste.



Carbon or other filters to connect on the vent outlet of the sampling system



Reducing sleeve



Second bottle retaining clip

Bottle Sampling Configurator

Build an Bottle sampler ordering number by combining the designators in the sequence shown below

Designators		1	2	3	4	5	-	6	7	8	9	
Example Ordering No.	ECO	-	1	1	1	0	1	-	0	0	V	X
Ordering No.		-						-				

1 BODY MATERIAL

- 1 316 SS (Standard)
- 2 Duplex
- 3 Hastelloy C-276
- 4 TFM
- 5 PVC

2 SAMPLE BOTTLE VOLUME ⁽¹⁾

- 1 50 ml (GL32)
- 2 100 ml (GL45)
- 3 250 ml (GL45)
- 4 500 ml (GL45)
- 5 1000 ml (GL45)
- X Other bottle volumes and types available on request

(Bottle adapters available for bottle types PP28, PP36 and others on request)

3 PROCESS NEEDLE SIZE

- 1 1.5 mm outer diameter (inner diameter = 1.1 mm)
- 2 2.0 mm outer diameter (inner diameter = 1.5 mm)
- 3 3.0 mm outer diameter (inner diameter = 2.5 mm)
- 4 4.0 mm outer diameter (inner diameter = 3.5 mm)
- 5 5.0 mm outer diameter (inner diameter = 4.0 mm)

4 PROCESS NEEDLE LENGTH

- 0 30 mm (Standard)
- (Other length on request)

5 VENT NEEDLE SIZE

- 1 2.0 mm outer diameter (inner diameter = 1.5 mm)
- 2 3.0 mm outer diameter (inner diameter = 2.5 mm)
- 3 4.0 mm outer diameter (inner diameter = 3.5 mm)
- 4 5.0 mm outer diameter (inner diameter = 4.0 mm)

6 VENT NEEDLE LENGTH

- 0 25 mm (Standard)
- (Other length on request)

7 NEEDLE POINT STYLE

- 0 Lancet point (standard)
- (The needles are available in 316 SS (Standard), Duplex or Hastelloy C22)

8 SEAL MATERIAL (NEEDLES)

- V Viton® (Standard)
- K Kalrez®
- B Buna-N

9 OPTIONS ⁽²⁾

- X No options
 - B Panel mounting bracket 316 SS
 - N NACE sour sample service
- (In accordance with NACE MR0175 / ISO 15156)
- P1 Process needle purge
- (The Purge-system will be provided with a blockvalve, a pressure regulator and a checkvalve)
- P2 Process back purge
- (The purge-system will be provided with blockvalve, a pressure regulator and a checkvalve)
- R Reducing sleeve
 - R2 Sleeve for 50 ml bottle in 100 ml sampler
 - R3 Sleeve for 50 ml bottle in 250 ml sampler
 - R4 Sleeve for 50 ml bottle in 500 ml sampler
 - R5 Sleeve for 50 ml bottle in 1000 ml sampler
 - S Second bottle retaining clip for 500 ml bottle
- (Only in combination with the 100 or 250 ml sample bottle)
- F Carbon filter to connect on the vent outlet of the sampling system
- (Other filters on request)
- O Orifice Fitting
- (Restrict flow in process)

- (1) The mechatest ECO-line sampler is designed for Schott - Duran sample bottles with screw cap and septum.
- (2) Select from the 'options' designator one or more options and fill in all these letters in the same column.

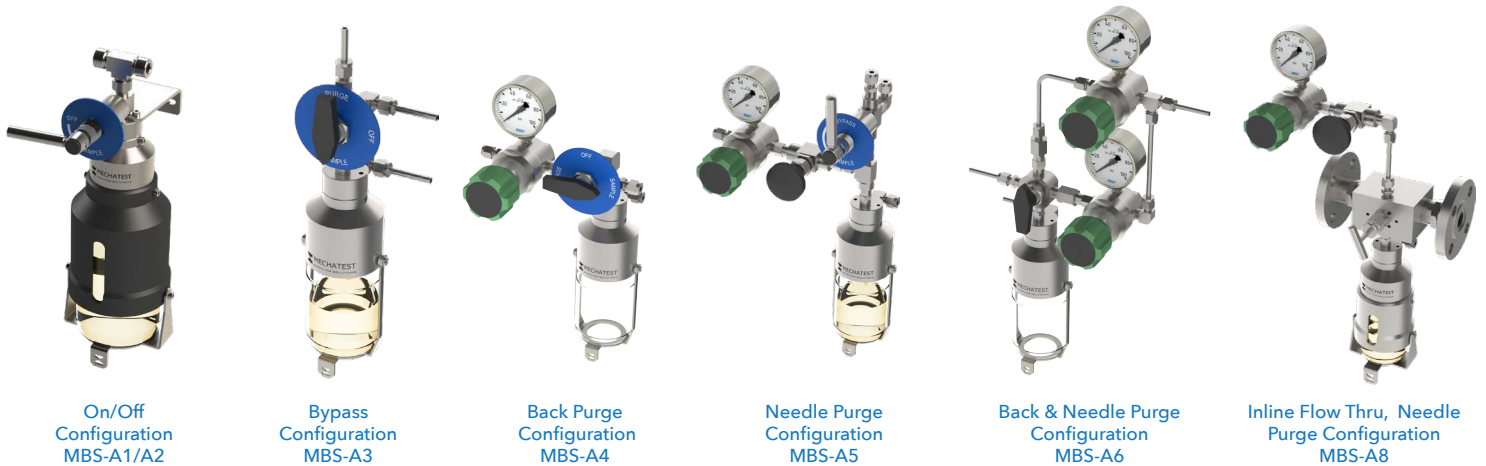
Mechatest Sampling Solutions
 Tel: +31(0)153105183
 sales@mechatest.com
 www.mechatest.com

Koperslager 3
 2631 RK Nootdorp
 The Netherlands
Be part of the best solution



Mechatest is a Certified Industrial Sampling Systems Company with over 26 years of experience in design and manufacturing of fluid sampling systems. We understand how a sample behaves at the sample tap and transport into the lab. We offer the best knowledge, equipment and sampling solutions in the field.

TYPICAL SAMPLING CONFIGURATIONS



On/Off Configuration
MBS-A1/A2

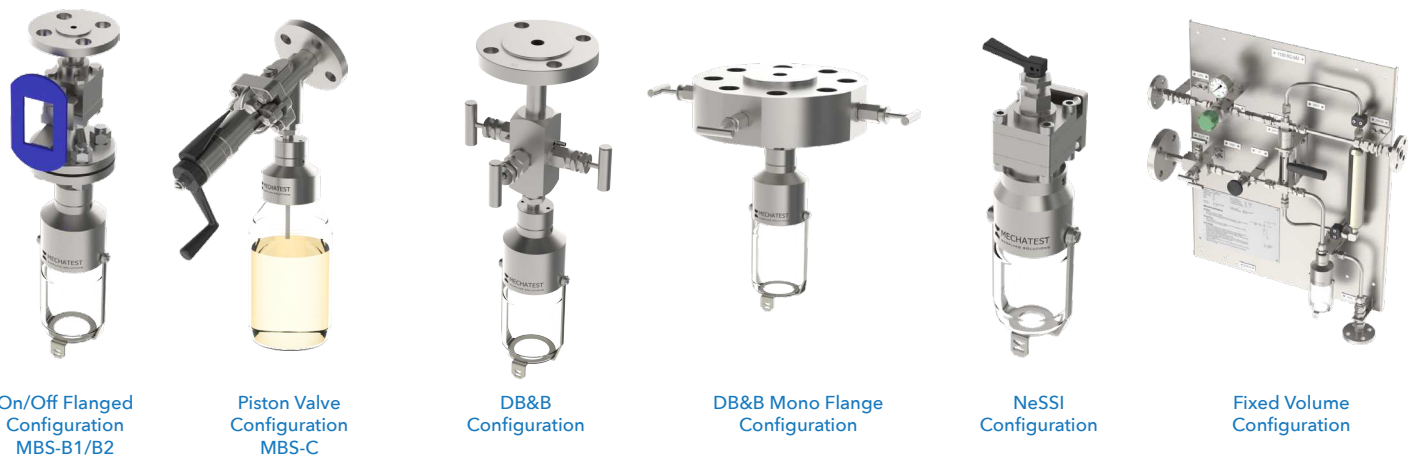
Bypass Configuration
MBS-A3

Back Purge Configuration
MBS-A4

Needle Purge Configuration
MBS-A5

Back & Needle Purge Configuration
MBS-A6

Inline Flow Thru, Needle Purge Configuration
MBS-A8



On/Off Flanged Configuration
MBS-B1/B2

Piston Valve Configuration
MBS-C

DB&B Configuration

DB&B Mono Flange Configuration

NeSSI Configuration

Fixed Volume Configuration

YOUR ADVANTAGES

- Wetted parts 316SS and available in exotic Alloy materials or chemical resistance plastics
- Replaceable Needle assemblies for Process and Vent needle, independent to choose in smaller or larger size
- Replaceable bottle holders makes the sampler very flexible, possibility to change later from bottle volume
- Bottle adapters for client and Dopak bottles
- Additional, bottle safety sleeves and spring return handles on valves



All of our sampling systems can be mounted in a protection enclosure, available in Stainless 304/316 (optional with offshore coating), Fiberglass, and Painted Steel.



Sample coolers can bring down the sample temperature in a sampling system for optimal conditions to take safely a manual sample.

APPLICATIONS

- Single phase liquid samples
- Toxic liquid samples
- Dangerous liquid samples
- Volatile liquid samples
- Mostly refined (commercial) gas oil, diesel oil, fuels, lubricating oil
- Water / condensate samples (tap, brackish, saline, demi)

