



ASPROC

BOTTLE SAMPLING SYSTEMS

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Bottle Sampling Systems

Sampling volumes 50 - 1000 mL

MBS



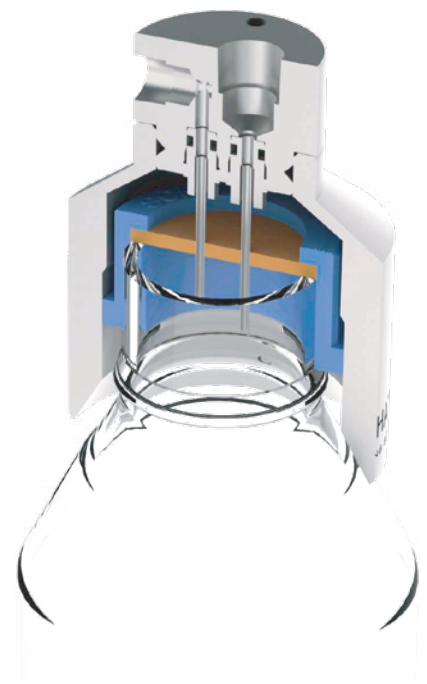
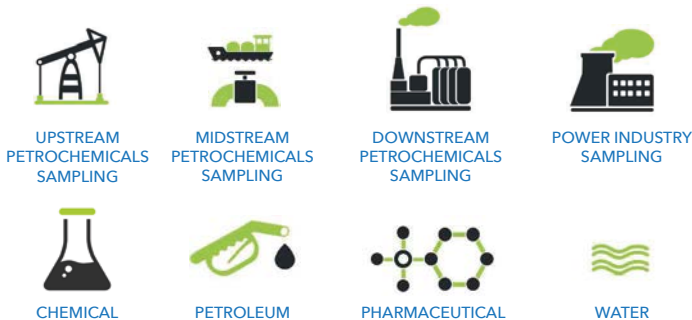
Are you ready to get the best liquid sampling results?

- 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



Overview of typical Sampling Valves, Body, Needles and Bottle Holders
(other choices available on request)

SAMPLING VALVES BODY & NEEDLES BOTTLE HOLDERS ACCESSORIES



Flanged Valves



Wafer Type In-Line



2-way or 3-way Valves



NeSSI Valves



Flow Thru Valves



Piston Valve



Sampler Body Needles



Process Needles



Vent Needles



NeSSI Body Needles



Sampler Body Tube



GL32 or GL 45 Bottle Holder



Bottle Holder



Safety Sleeve



Screw Bottle Adapter



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.	MBS	-	1	1	1	0	2	0	0	V	-	S
Ordering No.		-									-	

1 SAMPLER MATERIAL

- 1 316 SS (Standard)
- 2 Monel
- 3 Hastelloy C-276
- 4 TFM
- 5 PVC
- X Other materials on request

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 volumes on request

(Bottle adapters available for bottle cap sizes PP28 and PP36)

3 PROCESS NEEDLE SIZE ⁽²⁾

- 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)

5 VENT NEEDLE SIZE ⁽²⁾

- 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)

6 VENT NEEDLE LENGTH

- 0 25 mm (Standard)

7 NEEDLE POINT STYLE ⁽²⁾

- 0 Lancet point (standard)

8 SEAL MATERIAL (NEEDLES)

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

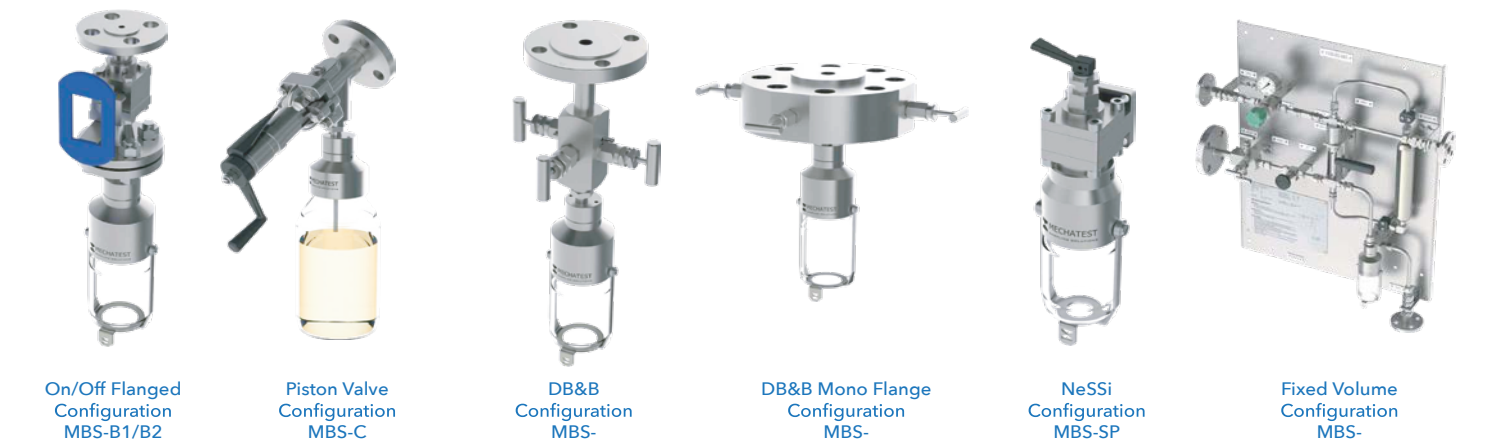
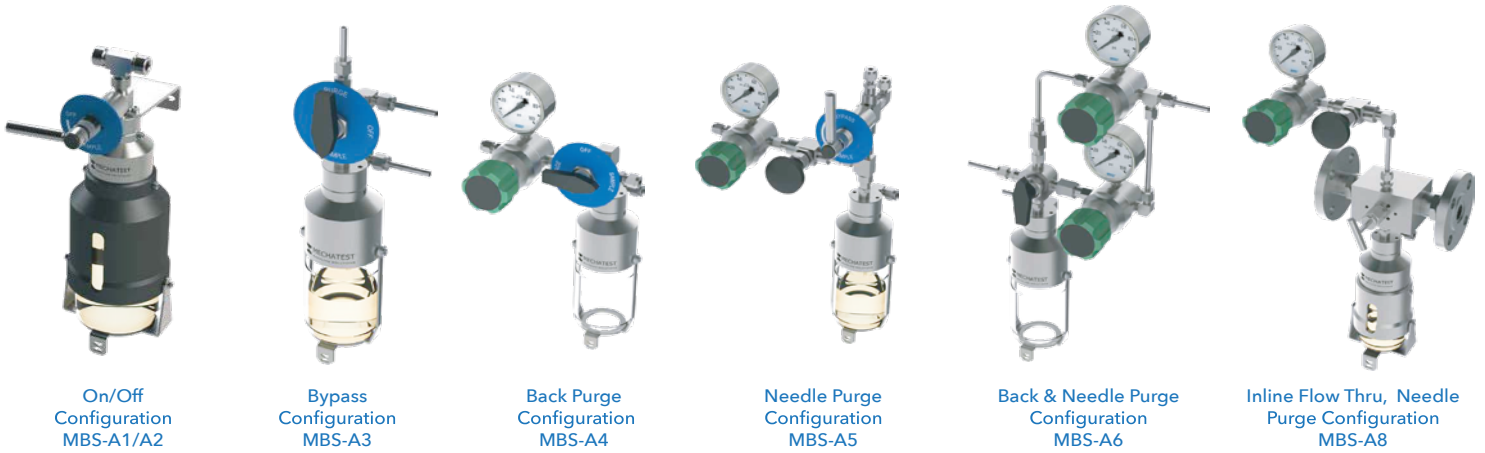
9 OPTIONS ⁽³⁾

- X No options
- N NACE sour sample service
(The liquid sampler is available for sour sample service, all wetted parts in accordance with NACE MR0175 / ISO 15156)
- RS Reducing sleeve for 50 ml bottle
- RC Second bottle retaining clip for 500 ml bottle
(Only in combination with the 100 or 250 ml sample bottle)
- S Safety sleeve 316 SS
- 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) The needles are available in 316 SS (Standard), limited in diameter available in Duplex or Hastelloy C22
- (3) Select from the 'options' designator one or more options and fill in all these letters in the same column.



TYPICAL SAMPLING CONFIGURATIONS



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)

