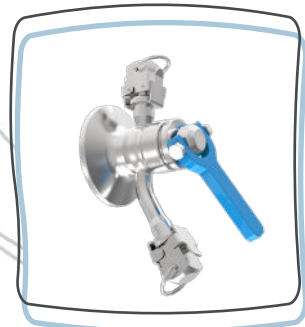
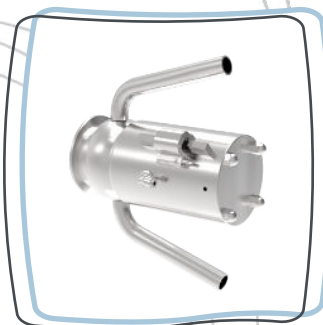




OUR COMMITMENT, **YOUR SUCCESS**



Quality
Traceability &



PED-compliant equipment

All our sampling valves are EC-compliant and can be used in a production environment subject to PED 2014/68/EU (Paragraph 3.3).

Comply with USP Class VI

We offer pharmaceutical companies manufacturing and marketing healthcare products in the United States, USP Class VI certification, ensuring the biocompatibility of certain elastomers used in our sampling systems.

Equipment that can be flame sterilised or CIP/SIP sterilised

With hygienic design and complete cleanability in place, our sampling valves ensure product quality and traceability throughout their use.

PEML, PEMC & PEVL: Sampling different types of liquids

Servinox offers a wide range of sampling systems suitable for all types of use, particularly with sticky, viscous, pasty, sugary and/or laden liquids.

PEMA, PEML & PEMC: The choice of operating in manual or automatic mode

Each version has its own advantages: the manual versions enable samples to be taken independently at any time, while the automatic versions ensure traceability of product quality by regularly covering all phases of the process and enabling the whole system to be cleaned in place (CIP/SIP).

PESH: Sampling by syringe for the most sensitive products

In the PESH, everything has been designed to exclude the risk of contamination (particularly bacterial): sampling by syringe, no retention area, single use of sampling points, self-repairing membrane, etc.

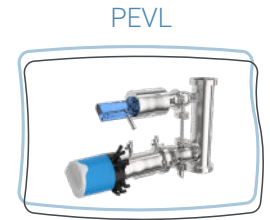
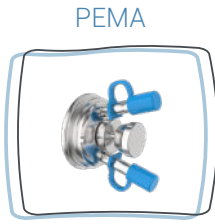
PEVL: Collect a precise and constant volume of product

The PEVL volumetric sampling system enables precise and identical volumes to be collected from the transfer line, either automatically or at regular intervals. The PEVL is particularly suitable for use when receiving milk, both to identify the risks of contamination and to check the fat content.

PEMA, PEML, PEMC & PEVL: ATEX-certified automatic sampling

The automatic sampling systems are available with "ATEX 2014/34/EU, zone 1 & 2, gas and dust" certification, therefore they can be used in explosive gas and dust atmospheres.

Which sampling solutions for which needs?



	Location		Type of liquid		
	On tank	On process line	Clear or low viscosity	Sticky, sugary or with low-solidification rate	Laden
PEMS	✓	✓	✓	✓ ⁵	✗
PEMA	✓	✗	✓	✓	✗
PEML	✓	✓	✓	✓	✗
PEMC	✓	✗	✓	✓	✓
PESH	✓	✓	✓	✗	✗
PEVL	✗	✓	✓	✗	✗

	Independent		Hygienic characteristics		
	Manual	Automatic	Suitable for bacteriological inspections	Flame-sterilisable	CIP/SIP sterilisable
PEMS	✓	✗	✓	✓	✓ (by circulation)
PEMA	✓	✓	✓	✓	✓ (by circulation)
PEML	✓	✓	✓	✓	✓ (by circulation)
PEMC	✓	✓	✓	✓	✓ (by circulation)
PESH	✓	✗	✓ (syringe sampling)	✗	✓ (in place)
PEVL	✓	✓	✓	✗	✓ (by circulation)

	Conformity			
	Standard version	Version upon request	Membranes	Membranes on request
PEMS	2014/68/EU ¹	-	FDA, EC ³	ACS standard / USP Class VI ⁴
PEMA	2014/68/EU ¹	ATEX ²	FDA, EC ³	USP Class VI ⁴
PEML	2014/68/EU ¹	ATEX ²	FDA, EC ³	USP Class VI ⁴
PEMC	2014/68/EU ¹	ATEX ²	FDA, EC ³	USP Class VI ⁴
PESH	2014/68/EU ¹	-	FDA, EC ³ USP Class VI	-
PEVL	2014/68/EU ¹	ATEX ²	FDA, EC ³	-

¹ Group 2 fluids; Art 4.3

² ATEX certification available for automatic version only

³ EC: 1935/2004/EC

⁴ Excluding VITON membrane

⁵ If PEMS fitted with a Sekurit head

PEMS[®]

Simplified sampling valve with membrane for process tanks or lines and low viscosity liquids



Presentation

The PEMS sampling valve is used to take a sample of clear or low-viscosity liquid from a process line or a tank, in order to carry out quality and/or bacteriological tests. The valve is sealed by a membrane. Its hygienic design ensures that there are no retention areas (where bacteria can develop), and that it is easy to clean. Its hygienic qualities, as well as its ease of installation and maintenance, make it a market reference.

Key features

- Hygienic design with flush body
- Low cost of ownership and use
- Modular opening
- Ease of use and maintenance

Applications

- Sampling on a tank or transfer line of a clear or low-viscosity liquid (non-sticky, non-sugary and non-solidifying, except for the PEMS SEKU version)
- Equipment particularly suited to sampling products subject to quality and/or bacteriological tests

Technical features

Sizes: DN 6 and DN 10

Inlet fitting: Welding

Outlet fitting: Plain nozzle

CIP connection (option): Plain nozzle

Operating pressure: From 0.1 to 6.0 bar (0 to 10 bar for the PEMS SEKU version)

Operating temperature: From 0°C to 120°C

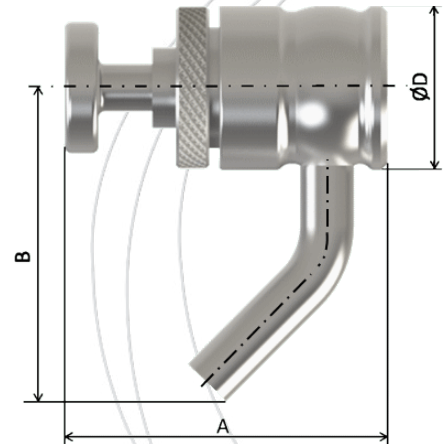
Withstands CIP/SIP: Up to 130°C for 20 to 30 minutes

Materials

- Parts in contact with the product: Stainless steel 1.4404 (316L)
- Other parts: Stainless steel 1.4307 (304L) or 1.4404 (316L)
- Sealing: VMQ (Silicone) membrane

Dimensions in mm

Sizes	A	B	D
DN 6 (elbow outlet)	48	70	24.5
DN 10 (elbow outlet)	47	71	34.5



Options

- Additional inlet for CIP fluid flow
- VMQ (Silicone) or stainless steel cap(s)
- Other inlet connections: butt weld body, micro-clamp, clamp, female/male (DIN/SMS), 1/4, 3/8, 1/2 threaded, VARINLINE support, 60/30 oval flange (wine), etc.
- Other outlet connections: micro-clamp, clamp, 1/4, 3/8, 1/2, 3/4 thread, "alligator" type aseptic quick-fit coupling, etc.
- Other membranes: EPDM (Ethylene Propylene Diene Monomer), NBR (Nitrile rubber), FKM (Fluorocarbon rubber, eq. Viton®), FFKM (Perfluoroelastomer, eq. Kalrez®)
- PEMS delivered welded or clamped on SVX T-section (horizontal type PEH or vertical type PEV): please contact us
- Customised equipment: please contact us

Warranty

12 months as from the date of dispatch (except for special conditions)

Conformity

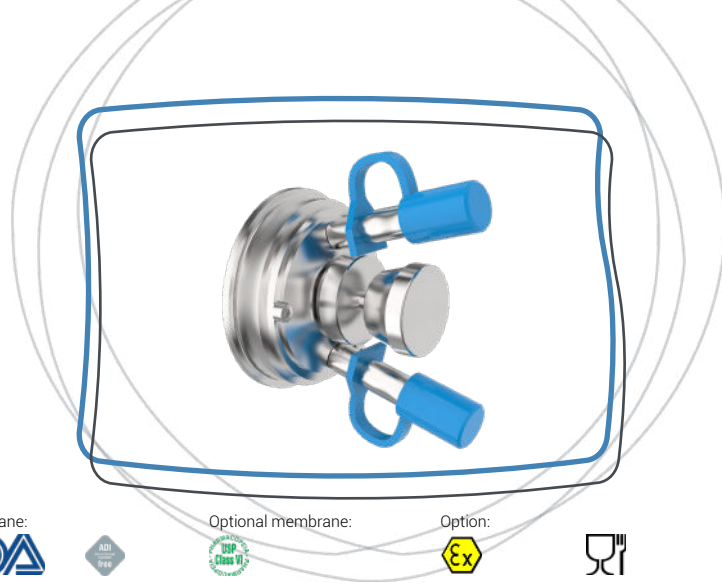
- Pipe fitting and tank compliant with Paragraph 4.3 of the PED 2014/68/EU
- Elastomer membranes compliant with FDA CFR 21.177.2600 and Regulation (EC) 1935/2004
- Optional depending on the elastomer: Membranes compliant with USP Class VI or ACS standard

Non-contractual document and visuals, subject to change without notice.

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PEMA[®]

Sampling valve with Membrane & Lever for tanks or process lines and low viscosity liquids



Presentation

Membrane:
FDA



Optional membrane:



Option:



The PEMA sampling valve is used to take a sample of clear or low-viscosity liquid from a tank, in order to carry out quality and/or bacteriological tests. The valve has a dedicated connection for the flow of CIP fluid, enabling the sampling chamber to be cleaned. The valve is sealed by a membrane. Its hygienic design ensures that there are no retention areas (where bacteria can develop), and that it is easy to clean. Its hygienic qualities, as well as its ease of installation and maintenance, make it a market reference.

Key features

- Hygienic design with completely flush body and the option of mounting on VARIVENT flush-mount supports
- Ease of use and maintenance
- Can be sterilised by CIP/SIP circulation

Applications

- On-tank sampling of clear or low-viscosity liquids (manual version)
- On-tank sampling of a sticky, sugary, low-solidification rate, low-viscosity or clear liquid (automatic version or SEKURIT manual version or lever)
- Equipment particularly suited to sampling products subject to quality and/or bacteriological tests

Technical features

Sizes: DN 6 and DN 10

Inlet fitting: SVX flush welding body

Outlet fitting: Plain nozzle with VMQ cap (Silicone)

CIP connection: Plain nozzle with VMQ cap (Silicone)

Operating pressure: From 0.1 to 6.0 bar (0 to 10 bar for the PEMS SEKU version)

Operating temperature: From 0°C to 120°C

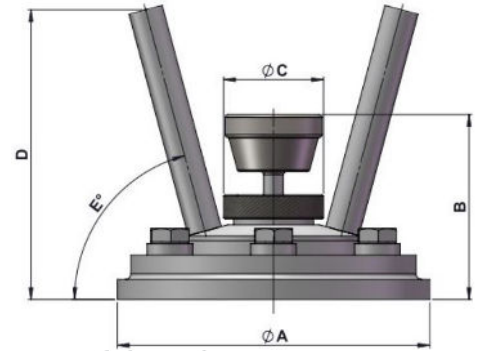
Withstands CIP/SIP: Up to 130°C for 20 to 30 minutes

Materials

- Parts in contact with the product: Stainless steel 1.4404 (316L)
- Other parts: Stainless steel 1.4301 (304L)
- Sealing: VMQ (Silicone) membrane

Dimensions in mm

Sizes	ØA	B	ØC	ØD	E°
DN 6	100	45	30	91	75
DN 10	110	65	38	101	75



Options

- Mounting on SVX flush flange or clamp or H-Connect flush bracket
- Fitted membrane head (lever or SEKURIT type)
- Automatic or hybrid version (automatic + manual)
- Valve without CIP connection for flame sterilisation
- Stainless steel caps on outlets with threaded ends
- Special connections on request (e.g. aseptic alligator type quick-fit couplings)
- Other membranes: EPDM (Ethylene Propylene Diene Monomer), NBR (Nitrile rubber), FKM (Fluorocarbon rubber, eq. Viton®), FFKM (eq. Kalrez®)

Warranty

12 months as from the date of dispatch (except for special conditions)

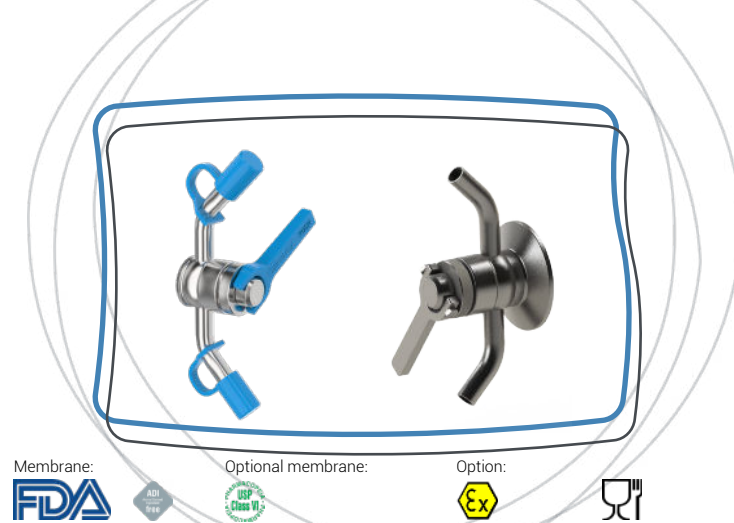
Conformity

- Tank fitting compliant with Paragraph 4.3 of the PED 2014/68/EU
- Option: "ATEX 2014/34/EU, zones 1 & 2, gas and dust" compliant for automatic versions
- Elastomer membranes compliant with FDA CFR 21.177.2600 and Regulation (EC) 1935/2004
- Option: Membranes compliant with USP Class VI

PEML[®]

Sampling valve with Membrane & Lever for tanks or process lines and low viscosity liquids

Presentation



The PEML sampling valve is used to take a sample of clear, low-viscosity or sticky liquid from a process line or a tank, in order to carry out quality and/or bacteriological tests. The PEML valve is available in manual and automatic versions. The valve has a dedicated connection for the flow of CIP fluid, enabling the sampling chamber to be cleaned. The control head offers 2 opening positions: kept open and opening with spring-loaded automatic closing. Its reinforced "flush membrane" (flared body) type hygienic design, ensures that there are no retention areas (where bacteria can develop), and that it is easy to clean. Sealed with a membrane coupled to the drive head.

Key features

- Specially designed for liquids that are sticky and/or have a low pressure head
- Hygienic design with flush body
- Can be sterilised by CIP/SIP circulation
- Operational safety (spring-loaded automatic closing)
- Ease of assembly and maintenance
- Available in manual and automatic versions

Applications

- Sampling on tanks or lines conveying sticky, sugary, low-solidification rate, low-viscosity or clear liquids
- Equipment particularly suited to sampling products subject to quality and/or bacteriological tests

Technical features

Sizes: DN 6 and DN 10

Inlet fitting: Welding

Outlet fitting: Plain nozzle with VMQ cap (Silicone)

CIP connection: Plain nozzle with VMQ cap (Silicone)

Operating pressure: From -1 to 6.0 bar for DN 6 and 5 bar for DN 10

Operating temperature: From 1°C to 120°C

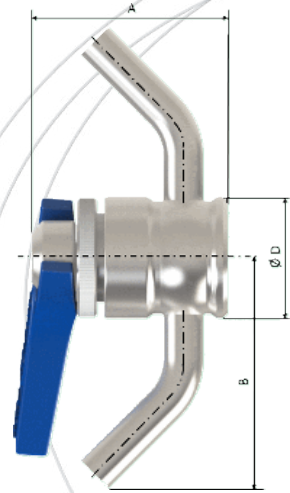
Withstands CIP/SIP: Up to 130°C for 20 to 30 minutes

Materials

- Parts in contact with the product: Stainless steel 1.4404 (316L)
- Other parts: Stainless steel 1.4307 (304L)
- Sealing: VMQ (Silicone) membrane
- Lever: Stainless steel or glass-fibre filled polyamide

Dimensions in mm

Sizes	A	B	D
DN 6 (elbow outlet)	51	56	24.5
DN 10 (elbow outlet)	52	76	34.5



Options

- Automatic version (single-acting or double-acting cylinder)
- Automatic version with opening detection
- Opening without blocking (dead man)
- Valve without CIP connection for flame sterilisation (silicone cap not included)
- Stainless steel screw caps or aseptic caps
- Other membranes: EPDM (Ethylene Propylene Diene Monomer), FKM (Fluorocarbon rubber, eq. Viton®), NBR (Nitrile rubber)
- Customised equipment: please contact us
- All types of connection on request (inlets and outlets)

Warranty

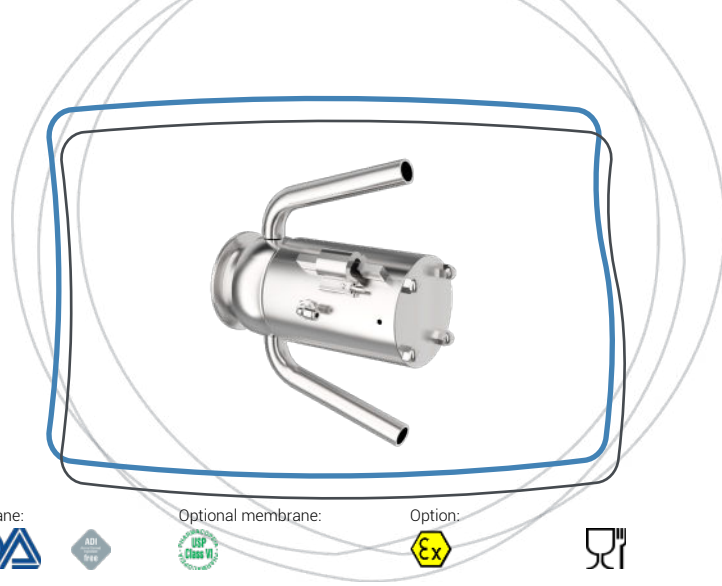
12 months as from the date of dispatch (except for special conditions)

Conformity

- Pipe fitting and tank compliant with Paragraph 4.3 of the PED 2014/68/EU
- Option: "ATEX 2014/34/EU, zones 1 & 2, gas and dust" compliant for automatic versions without opening detection
- Membranes compliant with FDA CFR 21.177.2600 and Regulation (EC) 1935/2004
- Option: Membrane compliant with USP Class VI

PEMC

Sampling valves with Membrane for tanks and low-viscosity fluids



Presentation

Membrane:



Optional membrane:



Option:



The PEMC sampling valve is used to take a sample of clear, viscous, sticky or laden liquid from a tank, in order to carry out quality and/or bacteriological tests. The PEMC valve is available in manual and automatic versions. Sealed with a membrane coupled to the drive head. Its hygienic design with a flush membrane (flared body), ensures that there are no retention areas (where bacteria can develop), and that it is easy to clean. The valve has a dedicated connection for the flow of CIP fluid, enabling the sampling chamber to be cleaned.

Key features

- Specially designed for liquids with a high viscosity or containing solid particles
- Hygienic design with flush body
- Can be sterilised by CIP/SIP circulation
- Available in manual and automatic versions

Applications

- On-tank sampling of all types of liquids, including sticky and/or laden liquids
- Equipment particularly suited to sampling products subject to quality and/or bacteriological tests

Technical features

Sizes: DN 15

Inlet fitting: Welding

Outlet fitting: Plain nozzle

CIP connection: Plain nozzle

Operating pressure: From 0 to 6 bar

Operating temperature: From 1°C to 120°C

Withstands CIP/SIP: Up to 130°C for 20 to 30 minutes

Materials

- Parts in contact with the product: Stainless steel 1.4404 (316L)
- Other parts: Stainless steel 1.4404 (316 L) or 1.4307 (304 L)
- Sealing: VMQ (Silicone) membrane

Dimensions in mm

Sizes	A	B	C	D	E
DN 15 manual	59.5	136	90.5	117	Ø17.2x1.6
DN 15 automatic	59.5	136	90.5	163	Ø17.2x1.6

Options

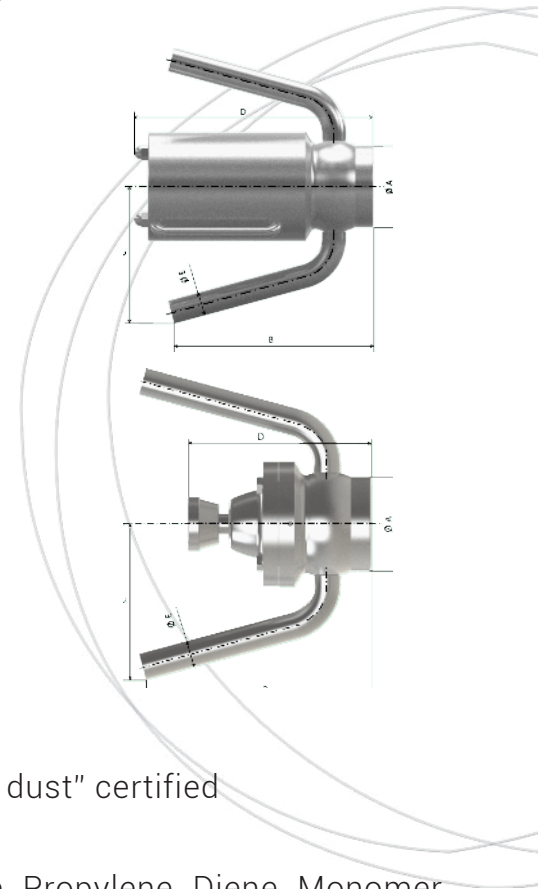
- Automatic version (single-acting cylinder)
- Automatic version with opening detection
- Automatic version "ATEX 2014/34/EU, zones 1 & 2, gas and dust" certified
- Valve without CIP connection (for flame sterilisation)
- Other membranes: NBR (Nitrile rubber), EPDM (Ethylene Propylene Diene Monomer rubber), FKM (Fluorocarbon rubber, eq. Viton®)
- Special connections on request:
 - Clamp (from SMS25)
 - Mounting on VARIVENT / VARINLINE
 - Mounting on SVX flanges type TC00203
 - "Ingold" connector
- Customised equipment: please contact us

Warranty

12 months as from the date of dispatch (except for special conditions)

Conformity

- Pipe fitting and tank compliant with Paragraph 4.3 of the PED 2014/68/EU
- Option: "ATEX 2014/34/EU, zones 1 & 2, gas and dust" compliant for automatic versions
- Membranes compliant with FDA CFR 21.177.2600 and Regulation (EC) 1935/2004
- Option: Membrane compliant with USP Class VI



PESH[®]

Syringe sampling valve with membrane for process tanks or lines and low-viscosity liquids



Presentation

The PESH sampling valve is used to take a sample of clear or low-viscosity liquid from a tank or a transfer circuit, in order to carry out quality and/or bacteriological tests. Its reinforced hygienic design ensures that there are no retention areas (where bacteria can develop), and that it is easy to clean. The sample is taken using a syringe through a self-repairing membrane. A numbered grid on the front panel of the equipment identifies which areas have already been used and which are still available for sampling.

Key features

- Syringe sampling
- Hygienic design, with the option of flush mounting (eq. NA Connect® or VARIVENT mounting support)
- Easy maintenance, only the membrane needs to be replaced
- Indexing for use of one hole per sample, to avoid any risk of contamination from the sampling point

Applications

- Process tanks or transfer lines containing clear, bacteriologically sensitive liquids
- Equipment particularly suited to sampling products subject to quality and/or bacteriological tests (particularly for the dairy industry)

Technical features

Connection: Clamp with an outside diameter of 50.5 mm

Mounting on minimum OD 1" connection (inside diameter 22.1 mm)

Operating pressure: from -1 to 10 bar for OD 1"

Operating temperature: from 1°C to 130°C

Withstands CIP/SIP: up to 140°C for 20 to 30 minutes

Indexed grid: 15 holes, diameter 2.5 mm

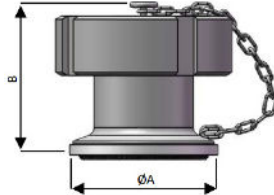
Materials

- Stainless steel 1.4404 (316L)
- Self-repairing membrane: VMQ (Silicone)

Dimensions in mm

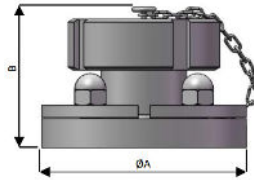
PESH only

Sizes	ØA	B
Dimension	50.5	52



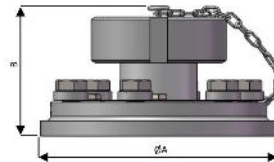
Mounting on N/A connect flange

Sizes	ØA	B
Dimension	85	58



Mounting on TC00203 flange

Sizes	ØA	B
Dimension	109.5	60



Options

- Supply of NA Connect® flange or equivalent
- PESH delivered mounted on pipe section (integrated clamp support)

Warranty

12 months as from the date of dispatch (except for special conditions)

Conformity

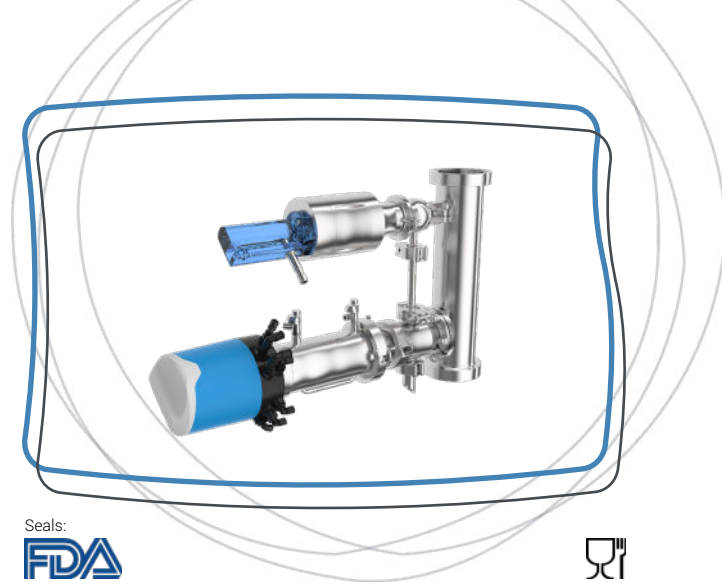
- Pipe fitting and tank compliant with Paragraph 4.3 of the PED 2014/68/EU
- Elastomer membrane compliant with FDA CFR 21.177.2600, Regulation (EC) 1935/2004 and USP Class VI

Non-contractual document and visuals, subject to change without notice.

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PEVL[®]

In-line volumetric sampling valve for low-viscosity fluids



Presentation

The PEVL sampling valve allows to automatically and sequentially take samples of a constant volume of clear or low-viscosity liquid on a transfer line.

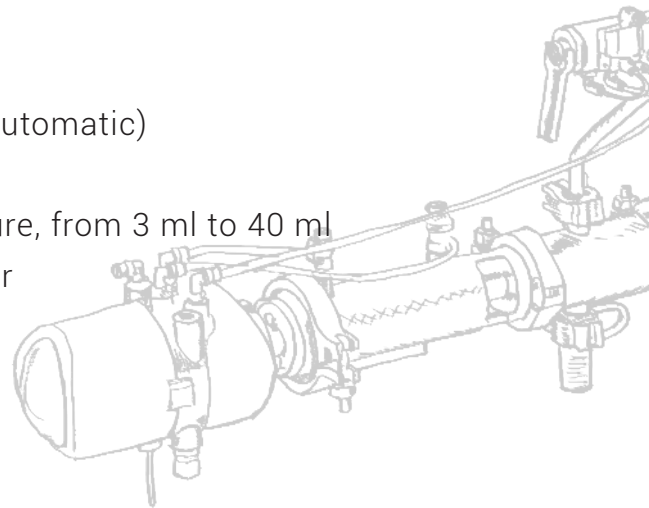
The PEVL is pneumatically controlled and comprises a body fitted with a sampling chamber, a sampling piston and an actuator cylinder. With each movement of the actuator cylinder, the sampling piston takes a quantity of product corresponding to the volume trapped in the calibrated neck of the piston from the transfer line. When the piston returns to its initial position, this volume is transferred to the sampling bottle through the outlet tubing. The sampling chamber is cleaned by simply connecting the valve to the CIP system or by injection of a detergent/sterilising liquid.

Key features

- Sampling a constant volume at regular intervals (automatic)
- Hygienic design, with in-line cleaning valve fitted
- Sampling volume defined at the time of manufacture, from 3 ml to 40 ml
- Possibility of collecting up to 600 samples per hour
- Can be sterilised by CIP/SIP circulation

Applications

- Sampling on a transfer line of a clear or low-viscosity liquid
- Equipment particularly suited to sampling products subject to quality and/or bacteriological tests



SERV

Technical features

SMS sizes (ØA):

- Model 1: Sampling volume from 3 to 20 ml
- Model 2: Sampling volume from 21 to 40 ml

Mounting on SMS/DIN/ISO vertical pipes from DN 50: 51 mm (2"); 63.5 mm (2 ½"); 76 mm (3"); 104 mm (4") DIN and ISO

Outlet tube diameter: clamp OD 3/4" (Ø19.05 x 1.65)

Mounting on pipe section: SMS51/OD2" clamp (mounted on H-Connect flange welded to the section)

Inlet/outlet connection of the section on the pipe: Clamp

Pneumatic connection: 6 mm polyamide tube on push-in fittings

Pneumatic operating pressure: 6 bar

Hydraulic operating pressure: from 0.1 to 10 bar

Operating temperature: from 1°C to 120°C

Withstands CIP/SIP: Up to 121°C for 20 to 30 minutes

Materials

- Parts in contact with the product: Stainless steel 1.4404 (316L)
- Other parts: Stainless steel 1.4404 (316L), PTFE (polytetrafluoroethylene, eq. Teflon®) reinforced
- Sealing: EPDM (Ethylene Propylene Diene Monomer), Perbunan®

Options

- Automatic valve for direct CIP liquid supply
- Magnetic-inductive detection (on a cylinder) for taking samples
- Other connections: female, male, flange
- "Bare" model without section
- 100 % automatic version with drive head (24 Vdc, As-i, I/ O Link)
- Horizontal pipe model: please contact us
- Customised equipment: please contact us

Warranty

12 months as from the date of dispatch (except for special conditions)

Conformity

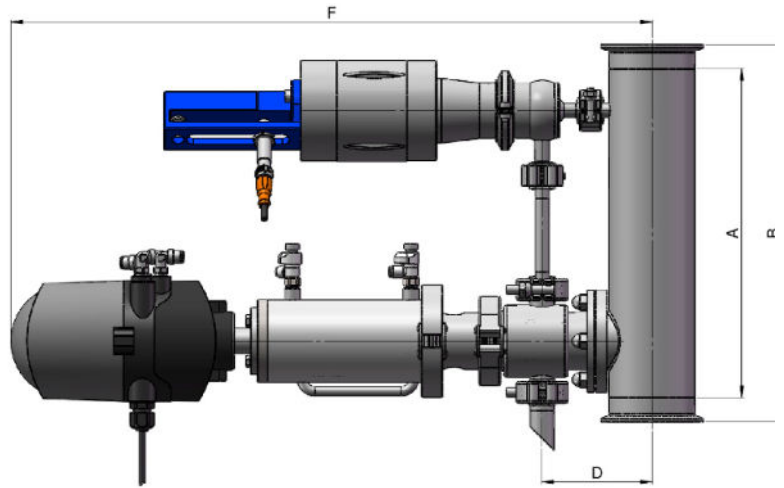
- Elastomer seals compliant with FDA CFR 21.177.2600 and Regulation (EC) 1935/2004
- Pipe fitting and tank compliant with Paragraph 4.3 of the PED 2014/68/EU

Non-contractual document and visuals, subject to change without notice.

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Dimensions in mm

Model PEVLXA
3 to 20 mL



Dimensions (in mm) SMS 3008

SIZE	51	63	76	100
A	100	100	100	100
B	143	143	143	143
Ø C	51x1.2	63.5x1.6	76.1x1.6	104x2
D	84	90	96	110
E	347	353	359	373
F	554	560	566	580

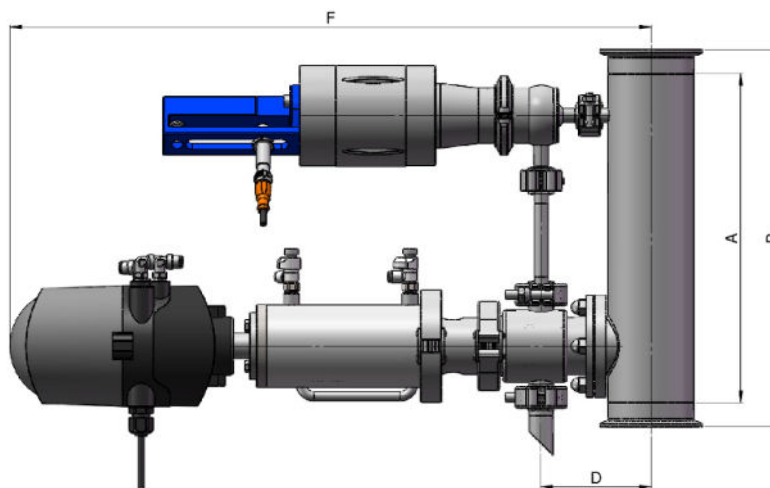
Dimensions (in mm) standard ISO 1127

SIZE	50	65	80	100
A	100	100	100	100
B	143	143	156	143
Ø C	53x1.5	70x2	85x2	104x2
D	85	93	101	110
E	348	356	364	373
F	555	563	571	580

Dimensions (in mm) standard ISO 1127

SIZE	50	65	80	100
A	100	100	100	100
B	156	143	143	156
Ø C	60.3x2	76.1x2	88.9x2	114.3x2
D	89	97	103	116
E	352	360	366	379
F	559	567	573	586

**Model PEVLXB
21 to 40 mL**



Dimensions (in mm) SMS 3008

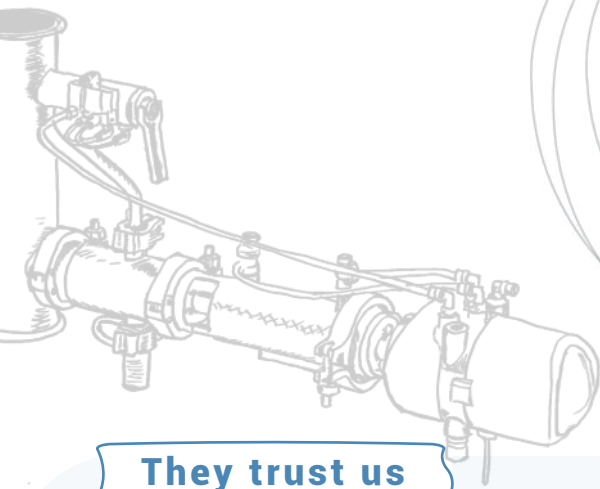
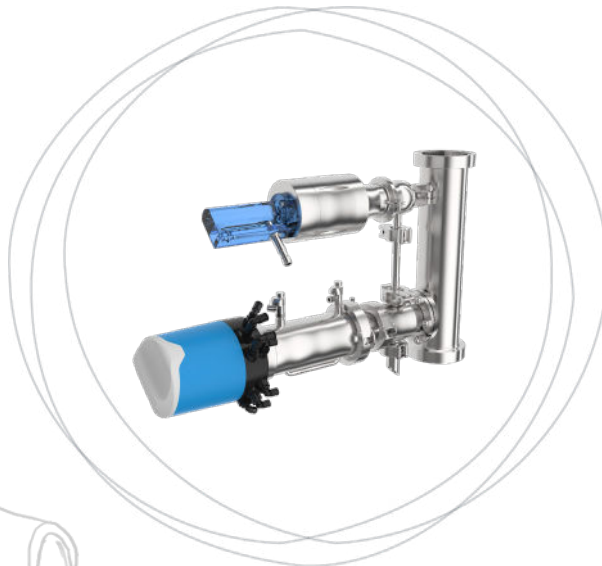
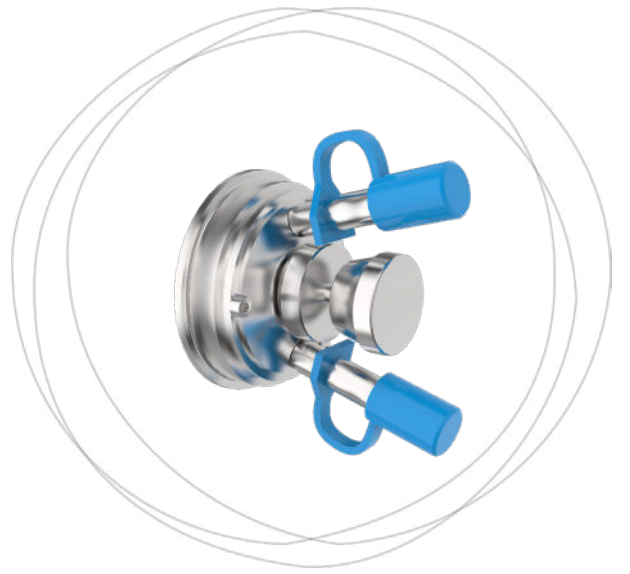
SIZE	51	63	76	100
A	100	100	100	100
B	143	143	143	143
Ø C	51x1.2	63.5x1.6	76.1x1.6	104x2
D	103	109	115	129
E	366	372	378	392
F	573	579	585	599

Dimensions (in mm) standard ISO 1127

SIZE	50	65	80	100
A	100	100	100	100
B	143	143	156	143
Ø C	53x1.5	70x2	85x2	104x2
D	104	112	120	129
E	367	375	383	392
F	574	582	590	599

Dimensions (in mm) standard ISO 1127

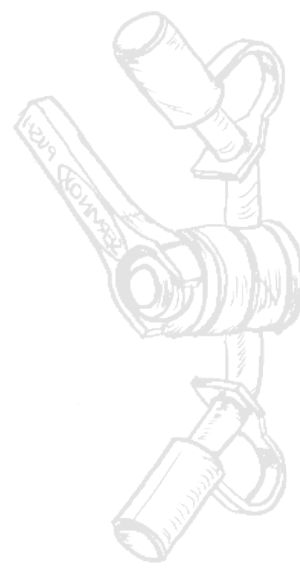
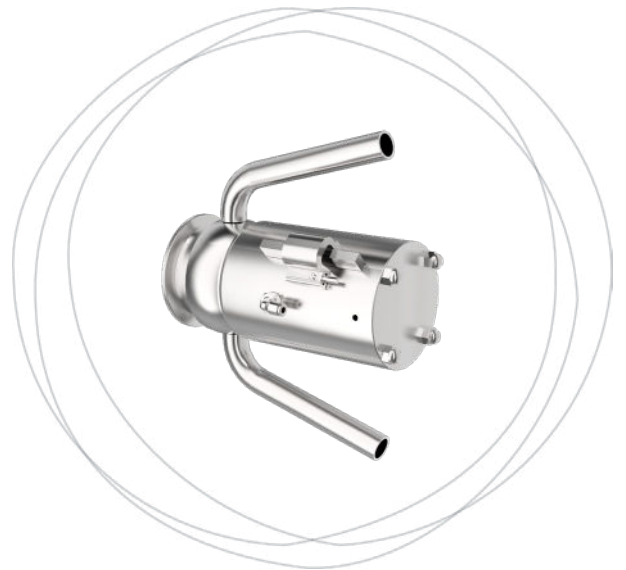
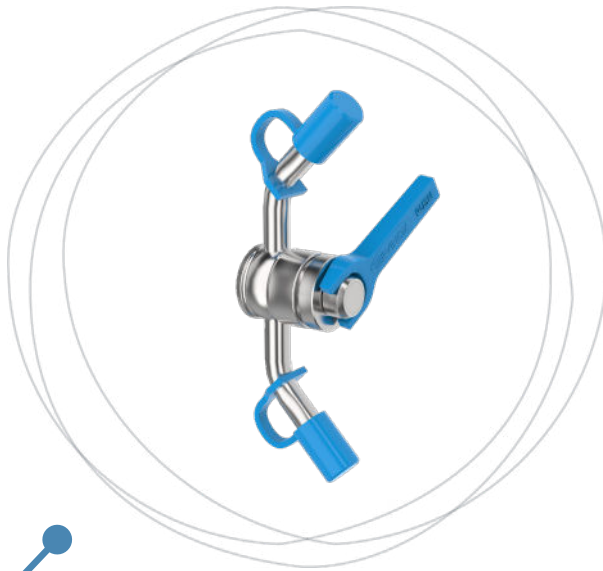
SIZE	50	65	80	100
A	100	100	100	100
B	156	143	143	156
Ø C	60.3x2	76.1x2	88.9x2	114.3x2
D	108	116	122	135
E	371	379	385	398
F	578	586	592	605



They trust us



L'ORÉAL



OUR COMMITMENT, **YOUR SUCCESS**

At Servinox, we believe in building a relationship of trust to consistently enhance and secure your processes.

We commit to offering our technical expertise to promptly enhance the relevance of your proposals. Our aim is to provide sustainable solutions with the best return on investment.

We are a consolidated manufacturer, integrating flexibility into our approach, providing certified and hygienic solutions. Our range includes pigging and washing solutions for tank protection and security, ensuring sample quality and optimising the efficiency of your facilities.

We are committed to identifying and ensuring the performance of our equipment.

4 RANGES FOR 4 PRIORITY OBJECTIVES...

Through its 4 main areas of expertise, Servinox invites manufacturers in all sectors to engage in a dynamic of progress:



**Quality
Traceability** &



**Security
Protection** &



**Efficiency
Environment** &



**Brewery
Expertise** &



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