

Pigging system

Sampling

Filtration

Breathing valves



REM
SYRINGE SAMPLING MEMBRANE SUPPORT



RES
STERILIZING BY LIQUID OR STEAM



REC
FLAME STERILIZABLE

Aseptic sampling valves



*The expertise
of a designer
and manufacturer*

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www.ab6-fluidprocess.com



Aseptic
sampling
valves
REC/RES/REM

Applications



Our focus is on optimization of production costs, quality control and environmental standards.

ABSCISSE offers solutions for reducing effluent, optimizing line cleaning, making processes secure and increasing the versatility of production lines.

Quality is an imperative. It is ensured by sampling, performed at the various stages of manufacture and by more or less binding environmental surroundings.

- Securing the samples
- Perfect representativeness of samples taken
- Safety of the sample taken
- Flush construction without retention
- Can be integrated into the cleaning cycles of the piping or the tank
- Simple automation
- Easy use, maintenance and upgrading
- Low maintenance cost





Aseptic sampling valves REC/RES/REM

Technical definition

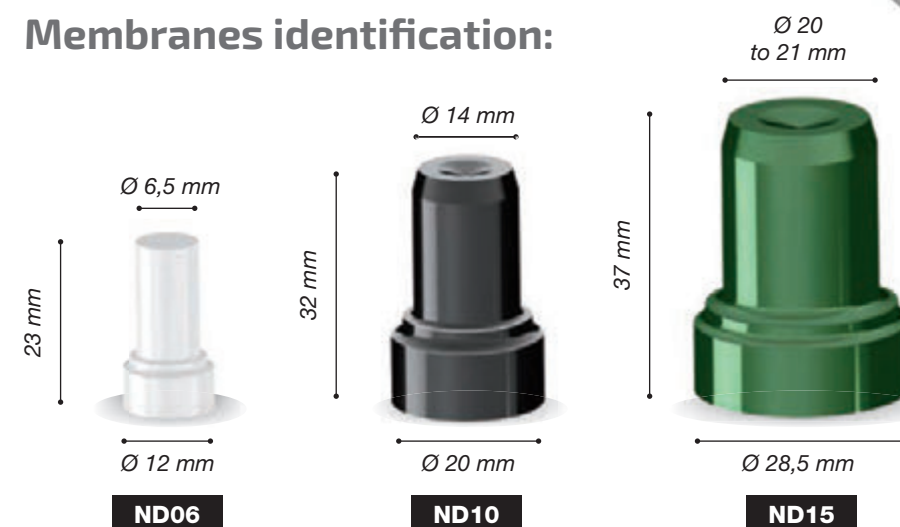


ND	6	10	15
Service pressure* («Handle» version)	0 to 10 bars	0 to 10 bars	0 to 10 bars
Service pressure* (Version with «actuator»)	0 to 6 bars	0 to 6 bars	0 to 6 bars
Operating temperature**	Stainless Steel pusher		DELFIN pusher/ Pneumatic actuator
SILICONE	0°C to 200 °C	0°C to 110°C	0°C to 110°C
EPDM	0°C to 120°C	0°C to 110°C	0°C to 110°C
FKM	0°C to 200°C	0°C to 110°C	0°C to 110°C
Membrane insert PTFE	0°C to 120°C	0°C to 110°C	0°C to 110°C
PTFE (REV or REW design)	0°C to 120°C	0°C to 110°C	0°C to 110°C
Maximum sterilization temperature**			
SILICONE	149°C	110°C	110°C
EPDM	120°C	110°C	110°C
FKM	121°C	110°C	110°C
Membrane insert PTFE	120°C	110°C	110°C
PTFE (REV or REW design)	120°C	110°C	110°C
Viscosity max. for a flow rate of 10 ml/s under 0.1b	200 cPo	1500 cPo	9000 cPo
Maximum particle size	0.8	1.3	2.2
Washing flow rate (m³/h) at speed of 3.5 m.s	0.2	0.6	1.5

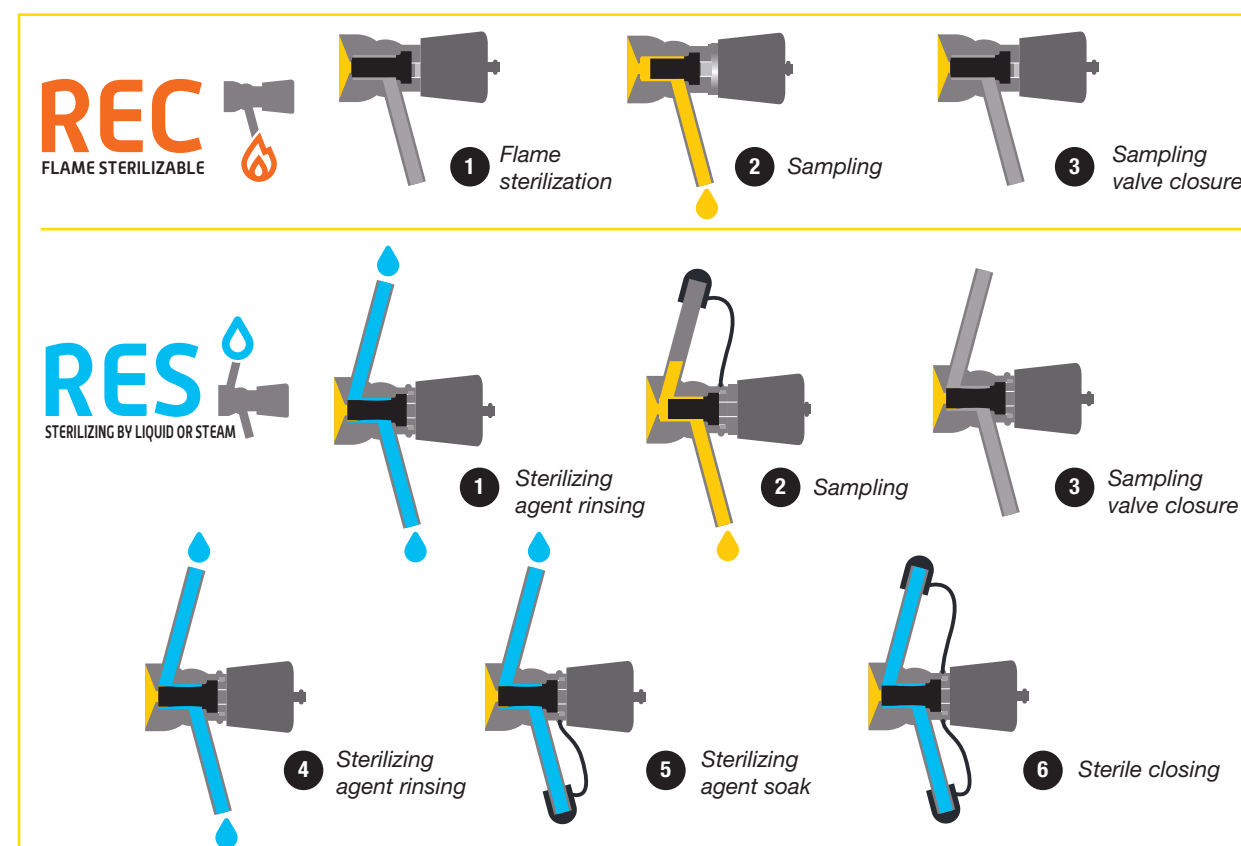
*Internal service pressure (tank and / or pipe).

**Subject to chemical compatibility with the products in contact and fluid in the liquid state.

Membranes identification:



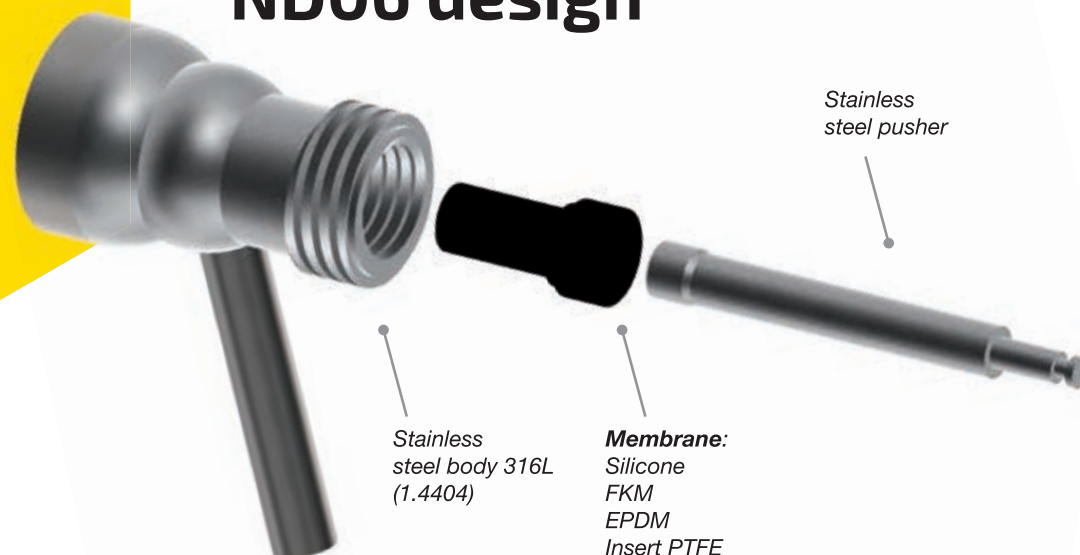
Sterilization procedures:





Aseptic sampling valves REC/RES

ND06 design



Suitable for low viscosity
and unloaded liquids

Ideally designed for water, beer,
wine or spirits

On tank or pipe

Stainless steel handle and pusher

Standard construction:

- EPDM, Silicone or FKM Membrane
- Sterilization Inlet by tube nozzle
- Sampling outlet by tube nozzle

On request:

- PTFE membrane construction
- Stainless steel body low ferrite 1.4435, Hastelloy or Alloy, Uranus B6,
- Inlet tube for Sterilization Inlet and sampling outlet with specific connection (clamp, SMS, DIN, thread, etc.)

Connection to tank or pipe:

	Flush membrane	Non-flush membrane
To be welded on tank wall	●	
Half clamp External Ø 50.5 mm	●	
BSP thread end 1/2" (15x21)	●	
Butt welded		●
Welded on tube to be welded on pipe	●	
Half micro clamp External Ø25 mm		●
BSP thread end 1/4" (8x13)		●
BSP thread end 3/8" (12x17)		●
Nutt ND25 SMS connection		●

● On stock ● Frequent stock ● Manufacturing

Without retention area:

In the closed position, compressed by the mechanical action of the pusher, the membrane fills the passage orifice entirely by its deformation.

In the open position, compressed by the mechanical action of the gland, the membrane is perfectly flush with the sample tube.

Securing the operations:

The thread of the gland is dissociated from that of the handle. There is thus no risk of loosening one by the action of the other.

Simplified automatization:

The motorization is done by a simple replacement of the pusher and the handle.

As an alternative to the manual construction, this valve can be equipped with:



Pneumatic actuator normally closed



NEW

Manual control by dead man's lever, normally closed (spring return closure)



NEW

Pneumatic actuator normally closed with mixed control



Pneumatic actuator, normally closed, equipped with a 24 VDC control head, with a single-acting solenoid valve and 2 limit switches (top and bottom) (Non-ATEX zone).

On request : ASI version, iO-Link, and ATEX II 3GD zone





Aseptic sampling valves REC/RES

ND10 design



Suitable for low viscosity
and unloaded liquids

Ideally designed for water, beer,
wine or spirits

On tank or pipe

Stainless steel handle and pusher

Standard construction:

- EPDM, Silicone or FKM Membrane
- Sterilization Inlet by tube nozzle
- Sampling outlet by tube nozzle

On request:

- PTFE membrane construction
- Stainless steel body low ferrite 1.4435, Hastelloy or Alloy, Uranus B6,
- Inlet tube for Sterilization Inlet and sampling outlet with specific connection (clamp, SMS, DIN, thread, etc.)

Connection to tank or pipe:

	Flush membrane	Non-flush membrane
To be welded on tank wall	●	
Half clamp External Ø 50.5 mm	●	
Welded on tube to be welded on pipe	●	
Butt welded		●
BSP thread end 1/2" (15x21)		●
Nutt ND25 SMS connection		●
NA CONNECT / INGOLD		●

● On stock ● Manufacturing



Without retention area:

In the closed position, compressed by the mechanical action of the pusher, the membrane fills the passage orifice entirely by its deformation.

In the open position, compressed by the mechanical action of the gland, the membrane is perfectly flush with the sample tube.

Securing the operations:

The thread of the gland is dissociated from that of the handle. There is thus no risk of loosening one by the action of the other.

Simplified automatization:

The motorization is done by a simple replacement of the pusher and the handle.



As an alternative to the manual construction, this valve can be equipped with:



Pneumatic actuator
normally closed



NEW

Manual control
by dead man's lever,
normally closed
(spring return closure)



NEW

Pneumatic actuator
normally closed
with mixed control



Pneumatic actuator, normally
closed, equipped with a
24 VDC control head, with
a single-acting solenoid valve
and 2 limit switches (top and
bottom) (Non-ATEX zone).

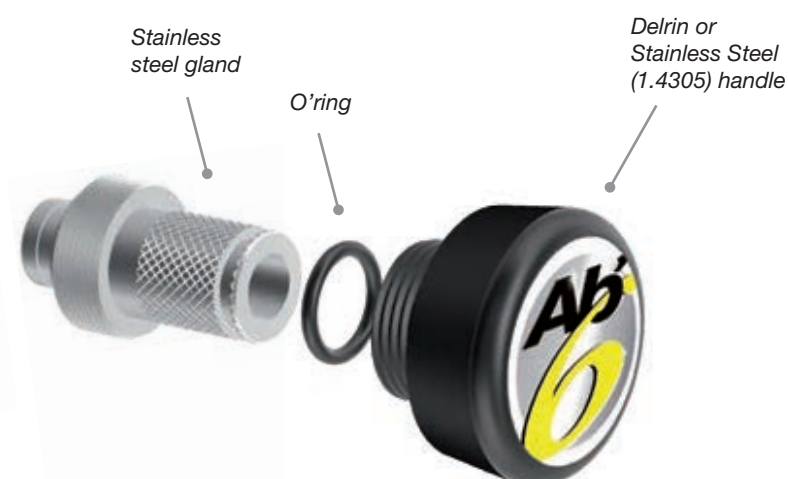
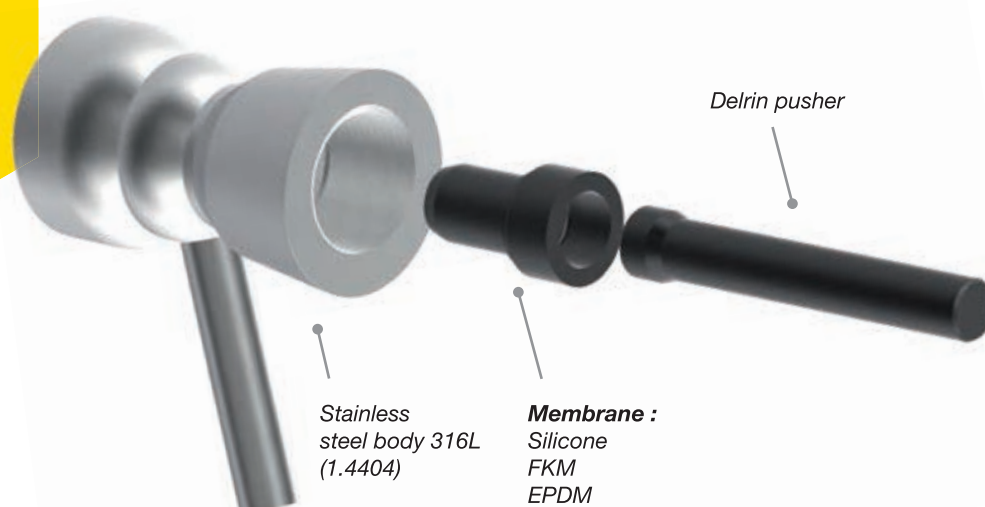
On request : ASI version,
iO-Link, and ATEX II 3GD zone





Aseptic sampling valves REC/RES

ND15 design



Suitable for liquids or pastes,
even with small solids in suspension
Ideally designed for milk, cream,
yogurts...

On tank or pipe

Delrin handle and pusher or in
stainless steel version

Standard construction:

- EPDM, Silicone or FKM Membrane
- Sterilization Inlet by tube nozzle
- Sampling outlet by tube nozzle

On request:

- PTFE membrane construction
- Stainless steel body low ferrite 1.4435, Hastelloy or Alloy, Uranus B6,
- Inlet tube for sterilizer and sampling outlet with specific connection (clamp, SMS, DIN, thread, etc.)

Without retention area:

In the closed position, compressed by the mechanical action of the pusher, the membrane fills the passage orifice entirely by its deformation.

In the open position, compressed by the mechanical action of the gland, the membrane is perfectly flush with the sample tube.

Securing the operations:

The thread of the gland is dissociated from that of the handle. There is thus no risk of loosening one by the action of the other.

Simplified automatization:

The motorization is done by a simple replacement of the pusher and the handle.

As an alternative to the manual construction, this valve can be equipped with:



Pneumatic actuator
normally closed



Pneumatic actuator
normally closed
with detection



Pneumatic actuator normally closed
with mixed control

Connection to tank or pipe:

	Flush membrane	Non-flush membrane
To be welded on tank wall	●	
Half clamp External Ø 50.5 mm	●	
Welded on tube to be welded on pipe	●	
Butt welded		●
BSP thread end 1/2" (15x21)		●
Nutt ND25 SMS connection		●
NA CONNECT / INGOLD		●

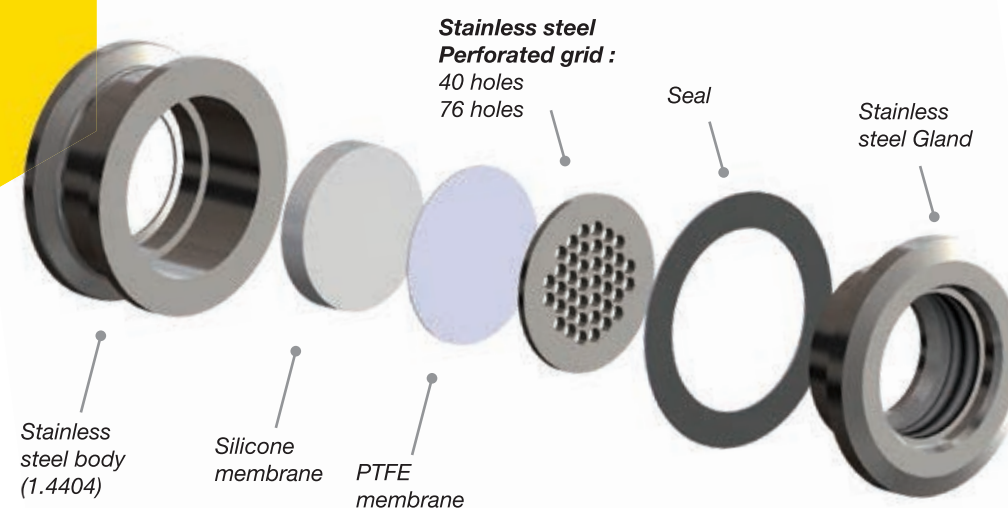
● On stock ● Manufacturing





Aseptic sampling valve REM

Aseptic Syringe Sampling membrane support (septum)



The sampling is done using a syringe, passing through a self-healing membrane.

Adapted for not very viscous and non-loaded liquids, presenting a strong risk of bacteriological development (water, milk, beer, liquids fermenting agents, etc.)

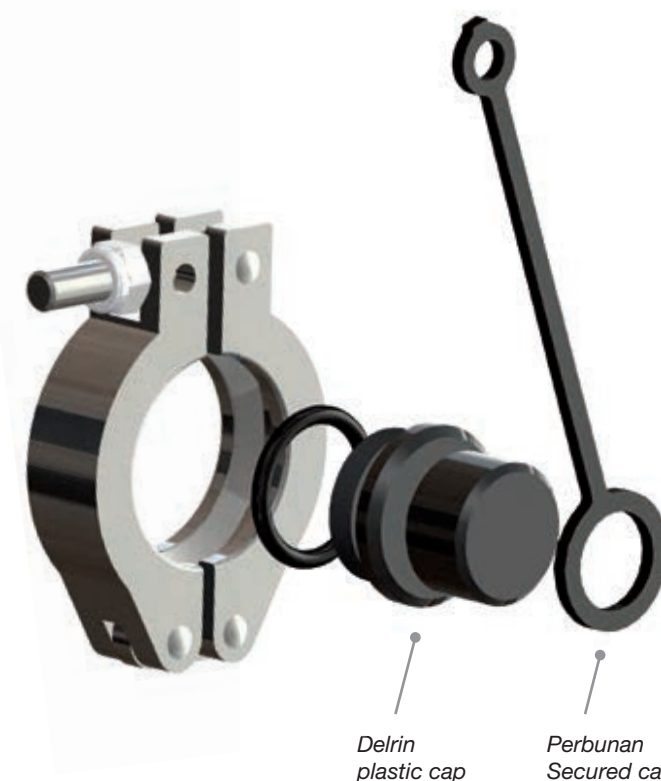
On tank or pipe

On request:

- Stainless steel body low ferrite 1.4435, Hastelloy or Alloy, Uranus B6,
- Recording device

No bacteriological risk:

The elastomer membrane is positioned perfectly flush.
A stainless steel grid, placed on the front panel of the equipment, doubled by a PTFE membrane, makes it possible to differentiate the areas already used from those still available.



REM
SYRINGE SAMPLING MEMBRANE SUPPORT

Excellent cleanability:

By the mechanical action of the gland, the membrane fills its body perfectly by its deformation.

Simplicity of maintenance:

The membrane and the PTFE control diaphragm are the only spare parts. Its maintenance does not require any specific tooling.

Connection to tank or pipe:

	40 holes	76 holes
To be welded on tank wall	●	●
Half clamp ¾" Øext 50.5 mm	●	●
Welded on tube to be welded on pipe	●	●
Butt welded	●	●
NA CONNECT / INGOLD	●	●

● On stock ● Frequent stock ● Manufacturing

Technical characteristics:

Holes	40	76
Service pressure*	-1 to 10 bars	0 to 10 bar
Operating temperature**	0 °C to 200 °	
SILICONE		
Perforation pressure	0 to 3 bars	0 to 3 bars
Maximum size of syringes (mm)	1.3	1.3

*Internal service pressure (tank and / or pipe)

**Subject to chemical compatibility with the products in contact and fluid in the liquid state





Our
international
presence

They trust in our technology

AGRANA, BEL PRODUCTION, BLEDINA, BIRRA PERONI, CENEXI, CHAINES THERMALES DU SOLEIL, CHRISTIAN DIOR PARFUMS, COCA-COLA, COINTREAU, COLGATE-PALMOLIVE, DANONE, EURIAL ULTRA FRAIS, FAREVA, FIRMENICH, GH MUMM, GYMA, HENKEL, KRUG, LA MARTINICAISE, LESIEUR, LESSAFRE, LES 3 BRASSEURS, L'OREAL, MARTELL & CO, MOËT & CHANDON, NESTLE, ORANGINA SUNTORY, PERNOD RICARD, PIERRE FABRE, REFRESCO, ROEDERER, ROQUETTE, SANOFI, SARBEC, SCHREIBER FOOD, SERVIER, SIROP MONIN, VEOLIA, YOPLAIT, YVES ROCHER...

Your partner



*The expertise
of a designer
and manufacturer*

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