

Pigging system

Sampling

Filtration

Safety 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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Aseptic  
sampling  
valves  
**REC/RES/REM**

## Applications



**REC**  
FLAME STERILIZABLE

**RES**  
STERILIZING BY LIQUID OR STEAM

**REM**  
SYRINGE SAMPLING MEMBRANE SUPPORT

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

**FDA U.S. FOOD & DRUG  
ADMINISTRATION**

  
**CE1935/2004**

  
**CLASS**





## Aseptic sampling valves REC/RES/REM

## Technical definition



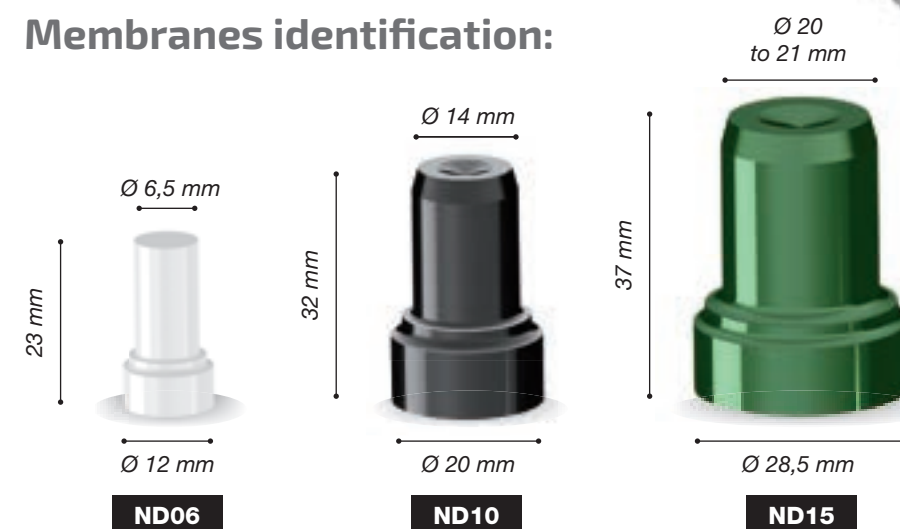
### Technical characteristics:

| ND   | 6                      | 10           | 15                               |
|--|------------------------|--------------|----------------------------------|
| Service pressure*                                    | 0 to 10 bars           | 0 to 10 bars | 0 to 10 bars                     |
| Operating temperature**                              | Stainless Steel pusher |              | DELFIN pusher/Pneumatic actuator |
| SILICONE   | 0°C to 200 °C          | 0°C to 110°C |                                  |
| EPDM   | 0°C to 120°C           | 0°C to 110°C |                                  |
| FKM  | 0°C to 200°C           | 0°C to 110°C |                                  |
| PTFE   | 0°C to 120°C           | 0°C to 110°C |                                  |
| Maximum sterilization temperature**                  |                        |              |                                  |
| SILICONE   | 149°C                  | 110°C        |                                  |
| EPDM   | 120°C                  | 110°C        |                                  |
| FKM  | 121°C                  | 110°C        |                                  |
| PTFE   | 120°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                              |

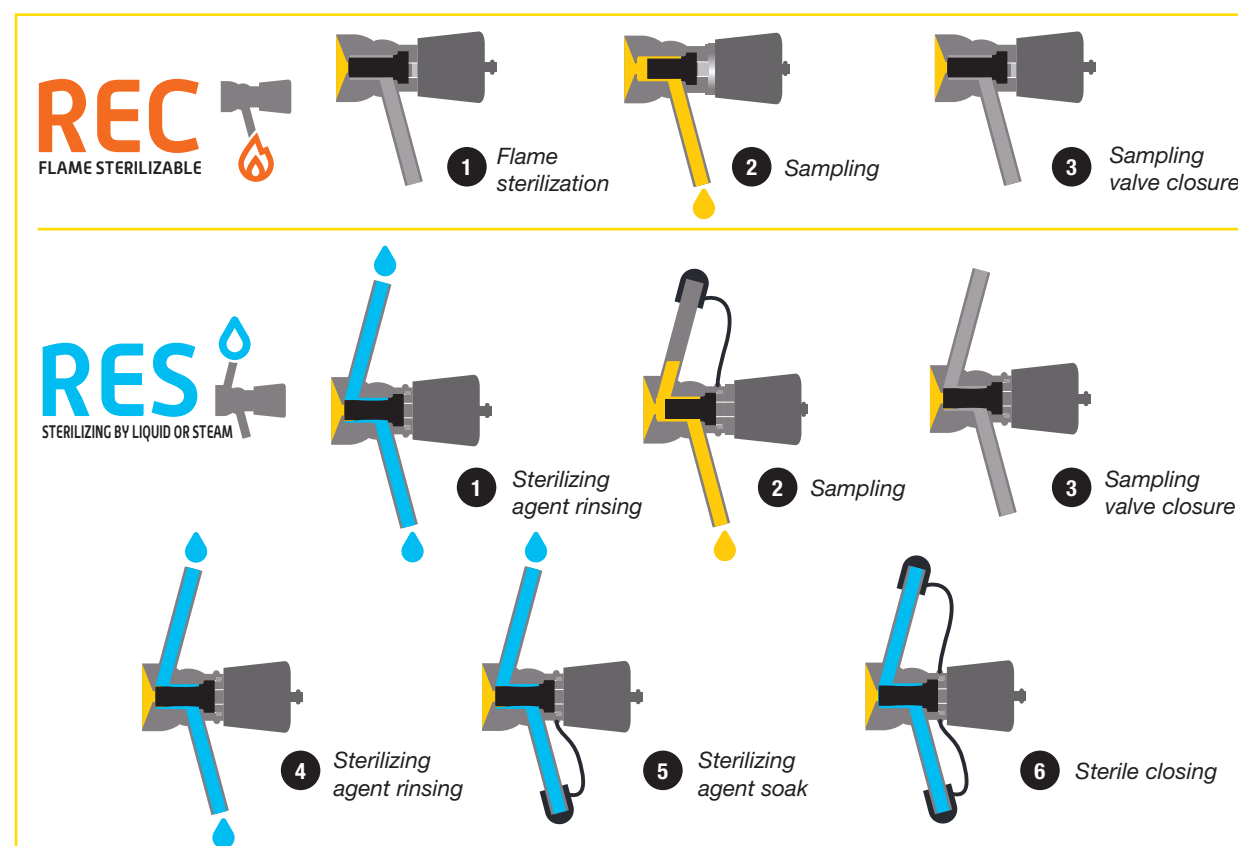
\*Internal service pressure (tank and / or pipe).

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

### Membranes identification:



### Sterilization procedures:

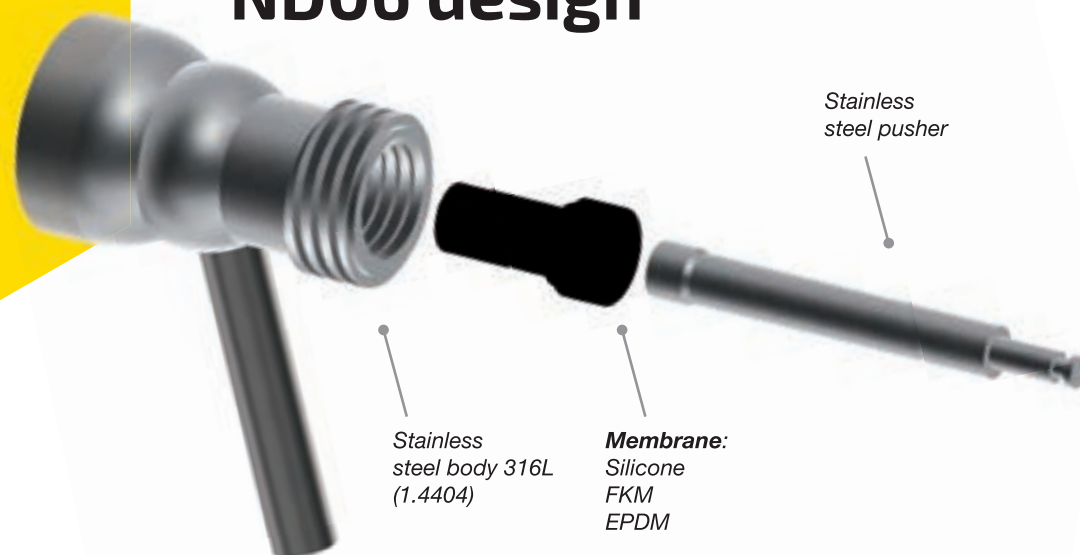






## Aseptic sampling valves REC/RES

## 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

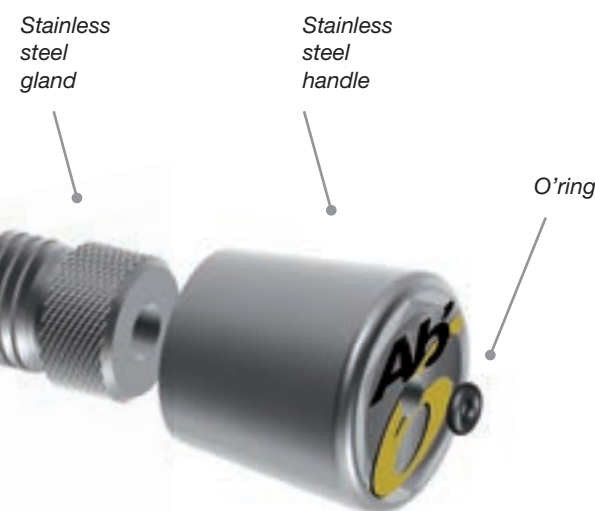
### On request:

- 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



Pneumatic actuator  
normally open



Pneumatic actuator  
normally closed with  
detection



Pneumatic actuator  
normally closed  
with mixed control



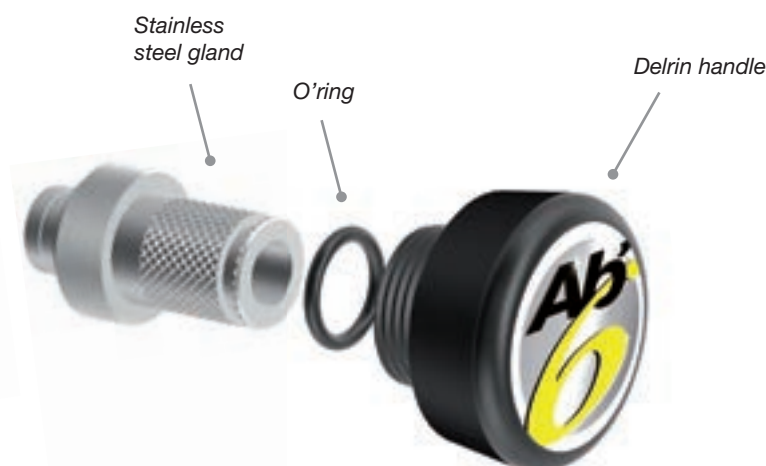
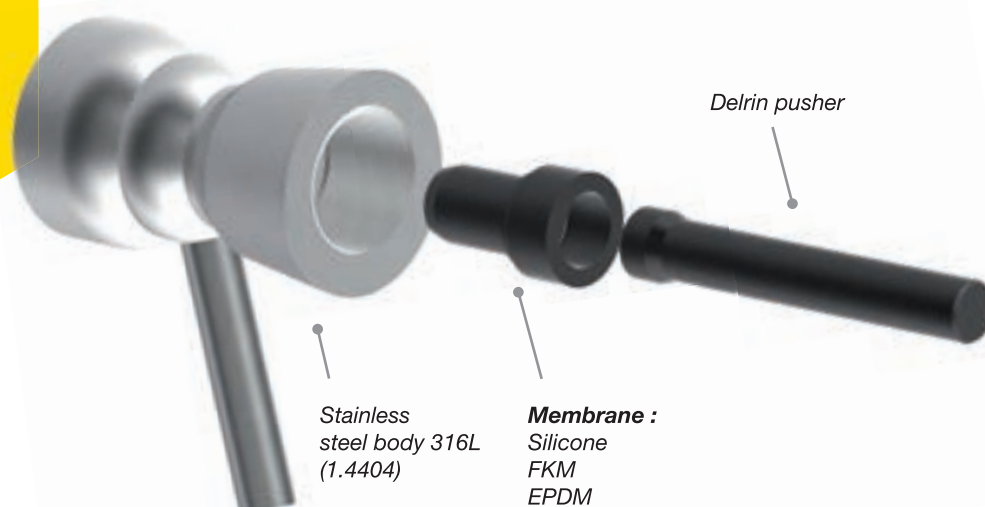
Sampling valve closed  
by spring operation





## Aseptic sampling valves REC/RES

## ND10 and 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

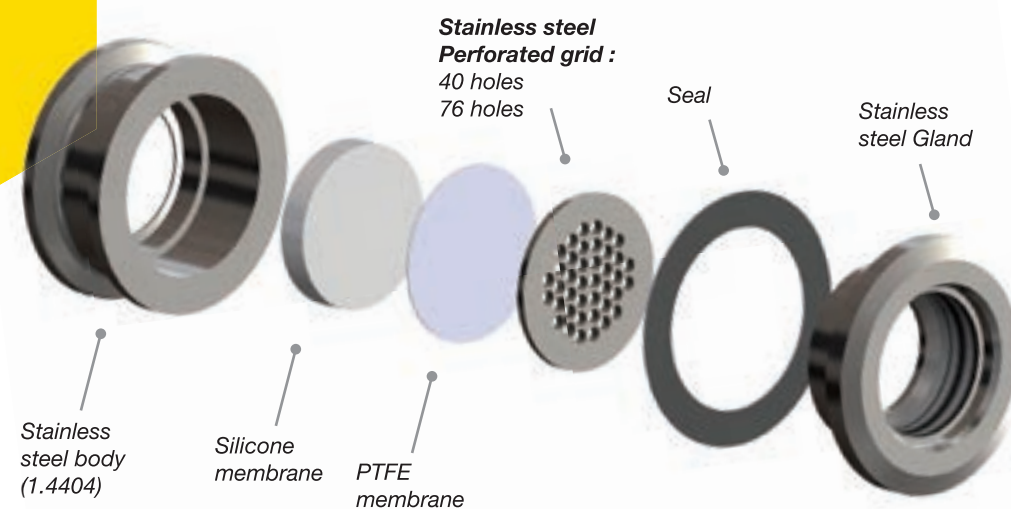






## Aseptic sampling valve REM

# 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, AIR LIQUIDE, BASF, BLEDINA, CEMOI, CENEXI, COCA-COLA, COLGATE-PALMOLIVE, DANONE, FAREVA, FIRMENICH, GERFLOR, GYMA, HENKEL, JOHNSON & JOHNSON, LA MARTINICAISE, L'OREAL, LESIEUR, LESSAFRE, MOËT & CHANDON, NESTLE, PIERRE FABRE, PERNOD RICARD, ROQUETTE, SANOFI, SARBEC, SERVIER, SOLVAY, TEREOS, TORAY, VALRHONA, VEOLIA, YOPLAIT, YVES ROCHER...



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and manufacturer*

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