**SIMPLE AND SECURE SAMPLING**

All manufacturers wish to guarantee the quality of the products consumed or used by consumers, who are increasingly demanding. The level of attention covers both the homogeneity of the productions and the texture or taste of the product produced.

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**OUR SAMPLING VALVES ALLOW THIS USING TWO TECHNIQUES**

1. **1-OUTLET VALVE**
   - Flame sterilization of the valve outlet

2. **2-OUTLET VALVES**
   - Sterilization by circulation of a sterilizing cleaning product or steam injection

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**PEX - PEAX**

**AN ANSWER WITH DEFINOX SAMPLING VALVES, COMBINING COMPACTNESS AND RELIABILITY**

Most often installed on tanks or pipes, PEX - PEAX sampling valves are easily integrated thanks to their multiple connection. Available in different diameters, fluids from the most liquid to the most viscous can be collected with the PEX - PEAX sampling valves.

The possibility of adapting the Sorio® control top to the automatic version makes it possible to control and view the status of the sampling valve remotely.

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**HYGIENIC DESIGN, WITHOUT RISK OF CONTAMINATION**

**OPTIMAL CLEANABILITY, CERTIFIED**

**COMPACT AND MODULAR DESIGN, THANKS TO THE MULTIPLE CONNECTIONS**

**MAXIMUM ADAPTABILITY ACCORDING TO THE ENVIRONMENT AND THE CONTEXT OF USE**

**THE ENVIRONMENT AND THE CONTEXT OF USE GOOD PERFORMANCE IN DIFFICULT SERVICE CONDITIONS**

**TAILOR-MADE ECONOMICAL SOLUTION**

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**FIELDS OF APPLICATION**

DEFINOX valves can be used on liquids or semi-liquids, more or less viscous, without risk of denaturing the manufactured product.

- **Food:** dairy products, jam, chocolate...
- **Cosmetics / Perfume**
- **Hygiene products:** toothpaste, shampoo, shower gel...
- **Household products:** laundry, detergent...
- **Pet food**

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*en cours de renouvellement*
**WHAT MAKES THE DIFFERENCE**

**PEX**

**MANUAL VERSION**
Ergonomic plastic handle (optional, red or another colour, on request), with opening and closing guard, preventing crushing and damaging the diaphragm.

- Optional Stainless steel handle.

**PEAX**

**AUTOMATIC VERSION**
Pneumatic actuator NC (Normally Closed), compact, in stainless-steel, removable.

- Optional Operating lever, for manual control in an automatic cycle (leaded version, for DN 16/18 to facilitate forcing).

**NEW DESIGN**
One-piece body machined in stainless-steel 1.4404 / AISI 316L. Removes roughness or defects, relating to the welding of the outlets. It guarantees a homogeneous and optimal interior surface condition.

- Design optimizing flow, cleanability and sterilization.

**Resistance levels of elastomer and plastomer**

<table>
<thead>
<tr>
<th>Material</th>
<th>O4</th>
<th>Greasy substances</th>
<th>Grease Oil</th>
<th>Grease Greasy Oil</th>
<th>CIP</th>
<th>Aggressive chemicals</th>
<th>Concentrated acids and peroxides</th>
<th>Abrasion resistance</th>
<th>Low temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPDM</td>
<td>★</td>
<td>★ ★ ★ ★ ★</td>
<td>★ ★ ★ ★ ★</td>
<td>★ ★ ★ ★ ★</td>
<td>★ ★</td>
<td>★ ★ ★ ★ ★ ★</td>
<td>★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★</td>
<td>★ ★ ★ ★ ★ ★ ★ ★</td>
<td>★ ★ ★ ★ ★ ★</td>
</tr>
<tr>
<td>FKM</td>
<td>★</td>
<td>★ ★ ★ ★ ★</td>
<td>★ ★ ★ ★ ★</td>
<td>★ ★ ★ ★ ★</td>
<td>★ ★</td>
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<td>★ ★ ★ ★ ★ ★</td>
</tr>
<tr>
<td>PFA</td>
<td>★</td>
<td>★ ★ ★ ★ ★</td>
<td>★ ★ ★ ★ ★</td>
<td>★ ★ ★ ★ ★</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Certification of elastomer and plastomer</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPDM</td>
</tr>
<tr>
<td>FDA 21 CFR 177.2660</td>
</tr>
<tr>
<td>3-A Sanitary Standards</td>
</tr>
<tr>
<td>ACS</td>
</tr>
</tbody>
</table>

**MATERIALS**

- Body: stainless-steel 1.4404 / AISI 316L
- Handle: white plastic material or stainless-steel 1.4301 / AISI 304
- Optional, red or another colour, on request
- Actuator: stainless-steel 1.4301 / AISI 304

**TERMS OF SERVICE**

- Maximum operating pressure: manual-automatic 10 bar (more, contact us)
- Minimum temperature: 0°C
- Maximum temperature: 120°C (more, contact us)
- Air supply of the actuator: 4 to 6 bar
- Air connection: Ø 4/6

**MAXIMUM PRESSURE**

<table>
<thead>
<tr>
<th>Material</th>
<th>Maximum pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPDM</td>
<td>STATIC</td>
</tr>
<tr>
<td>DN6/8</td>
<td>10 bar</td>
</tr>
<tr>
<td>DN10/12</td>
<td>10 bar</td>
</tr>
<tr>
<td>DN16/18</td>
<td>10 bar</td>
</tr>
</tbody>
</table>

**SUITABLE FOR ALL TYPES OF PROCESS**

**2 PFA SEALS**
Suitable for samples under pressure
- Valve PFA / EPDM
- Valve PFA / FKM

**5 DIAPHRAGM SEALS**
- VMQ diaphragm, as standard
- EPDM diaphragm
- White EPDM diaphragm
- FKM diaphragm
- Acid-proof FKM diaphragm
3 WAYS TO CHOOSE

In three steps, choose the configuration best suited to your sampling environment and the nature of the product collected.

1. DEPENDING ON THE STERILIZATION METHOD

Flame sterilization
PEX1 - PEAX1

Sterilization by injection of steam or a cleaning solution with sterilant
PEX2 - PEAX2

2. DEPENDING ON THE PASSAGE Ø OF THE PARTICLES

<table>
<thead>
<tr>
<th>Particle passage Ø (maximum in mm)</th>
<th>Viscosity</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIN 6/8</td>
<td>1.5</td>
</tr>
<tr>
<td>DIN 10/12</td>
<td>3</td>
</tr>
<tr>
<td>DIN 16/18</td>
<td>3.5</td>
</tr>
</tbody>
</table>

3. 6 CONNECTIONS, DEPENDING ON CONSTRAINTS OR CONNECTION LOCATION

FLAME STERILIZATION (1 OUTLET)

Manual PEX1
Automatic PEAX1
To be welded on the wall reference 1
To be butt welded, on tube reference 3
Gas thread reference 7
Clamp Ø 50.4 mm reference 5
Mini clamp Ø 34 mm reference 8
Micro-clamp Ø 25.4 mm reference A

STEAM OR SOLUTION INJECTION STERILIZATION (2 OUTLETS)

Manual PEX2
Automatic PEAX2
To be welded on the wall reference 2
To be butt welded, on tube reference 6
Gas thread reference 8
Clamp Ø 50.4 mm reference 6
Mini clamp Ø 34 mm reference B
Micro-clamp Ø 25.4 mm reference C

OTHER ASEPTIC SAMPLE COLLECTION

Diaphragm sampling valves allow sampling in strict sanitary environments. The design of DMX-DMAX valves incorporates a physical barrier between the interior of the valve and the outside environment, without risk of contamination. The profile of the valve body, without jumping, eliminates the risk of bacteriological development.

POWDER SAMPLING

For powder applications, DEFINOX offers a volumetric sampler suitable for powder sampling.
### DIMENSIONS

#### TO BE WELDED ON A WALL
- **Manual and Automatic**

<table>
<thead>
<tr>
<th>Tube ØA</th>
<th>B</th>
<th>ØC</th>
<th>ØD</th>
<th>Stroke E</th>
<th>F</th>
<th>WEIGHT (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIN 6/8</td>
<td>33</td>
<td>4.5</td>
<td>28</td>
<td>5</td>
<td>115</td>
<td>0.60</td>
</tr>
<tr>
<td>DIN 10/12</td>
<td>37</td>
<td>8</td>
<td>36</td>
<td>7</td>
<td>140</td>
<td>0.70</td>
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<tr>
<td>DIN 16/18</td>
<td>50</td>
<td>15</td>
<td>52</td>
<td>7</td>
<td>160</td>
<td>1.65</td>
</tr>
</tbody>
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#### TO BE BUTT WELDED
- **Manual and Automatic**

<table>
<thead>
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<th>Stroke E</th>
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<td>15</td>
<td>18</td>
<td>7</td>
<td>160</td>
<td>1.60</td>
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#### GAS THREAD
- **Manual and Automatic**

<table>
<thead>
<tr>
<th>Tube ØA</th>
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<td>1.35</td>
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</table>
The augmented reality developed by DEFINOX for more services.

• Immediate identification of the valve and spare parts.
• Save time in managing the stock of equipment.
• Reduced risk of errors.
• Immediate access to documentation.
• Individualized monitoring of the valve with the service book function.

**Test, Download, Scan...**

**Our Support**

**Engineering Department**

Our engineering department provides knowledge in IO-Link technology associated with process valves and liquid transfer. We advise and support your approach to implement predictive valve maintenance.

**PackServices Customer Service**

PackServices customer service offers various services

• Training *
• Preventive maintenance program
• Spare parts management
• Advice/expertise

Our teams of specialized multilingual technicians work in France and abroad for maintenance operations. They are also involved in product retrofit operations (change in generation of valves or housings).

*Certified training organization.
Specialist in the transfer of liquids for more than 50 years, DEFINOX designs and manufactures process valves and customized stainless-steel equipment for the food, cosmetics and fine chemicals industries.

The valves and equipment meet the standards of the regulations in force applicable to hygienic processes and the most severe constraints in terms of cleanability.

70
COUNTRIES

60,000
EQUIPMENT AND VALVES
SOLD PER YEAR

150
EMPLOYEES

definox.com

AND FOLLOW US ON:

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