



SAMPLING FOR LIQUID AND GAS



SWISS MADE SINCE 1983



All products are Swiss made in our 4000 m<sup>2</sup> production facility.



## BIAR, EXPERT IN SAMPLING SYSTEMS

### SPECIALIZED EXPERTISE

BIAR specializes in designing and manufacturing liquid and gas sampling systems for pipeline or reactor.

Working as a partner with world leaders in the chemical industry for nearly 30 years, today BIAR has the capacity to develop solutions for the most complex sampling.

### PIONEER

BIAR took the lead when, as early as 1983, it developed the first sampling valve with a hand wheel and conical seat.

### SWISS QUALITY

Proud of its Swiss roots, BIAR's manufacturing style emphasises quality, durability and high precision. A modern infrastructure and highly qualified staff allow BIAR to focus its expertise on what it knows best.

### CUSTOMER REFERENCES



Certificates:



**ISO 9001**

Quality management system



**ISO 3834-2**

Fusion welding of metallic materials



**SR 819.121  
97/23/EC**

Pressure Equipment regulation



*Piston injector and safety cabinet - simple solutions to reduce risks.*

## BIAR – ENGINEERED SOLUTIONS TO FIT YOUR NEEDS



### SECURITY

Due to excellent construction and design BIAR valves and accessories reduce typical risks such as inhaling toxic fumes, skin burns, explosions, etc.

### EFFICIENCY

Our actuators provide a controlled and accurate dosage. A high quality sample is achieved through many options.

#### REAL ADVANTAGES FOR YOU

- Process security improvement
- Personnel security improvement
- Improvement of sampling time
- Positive impact on the environment
- Quality and reliability of samples

### SIMPLICITY

Our valves will be adapted to your piping. Our products are designed to reduce handling, improve cleanliness and minimise maintenance.

- Simplified sampling
- Directly representative samples
- No process interruption
- High toxicity sampling
- High temperature sampling
- High pressure sampling
- Vacuum sampling
- Transport solution







Our experts will guide you to the best solution for your needs.



## A VALVE FOR EVERY NEED

### YOUR NEEDS

BIAR systems are suitable for all your liquid or gas sampling requirements, from polluted water to highly hazardous gases.

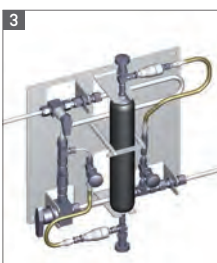
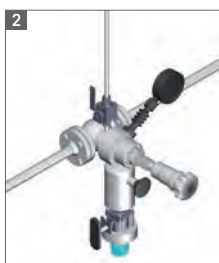
- Liquids
- High viscosity and slurries
- Gas
- Liquefied gas

Many receptacles and options are available depending on the security level required.

### BIAR'S SUITABLE PRODUCT

BIAR's agents and consultants will help you select the right product :

- Technical characteristics  
*[material, size]*
- Valve's position  
*[in-line vertical or horizontal, top of reactor]*
- Security level  
*[toxic products, corrosive, explosive,...]*
- Sample volume
- Sampling conditions  
*[Temperature, pressure, vacuum]*



1. In-line sampling valve
2. Quantitative and chamber sampling
3. Gas and liquefied gas sampling
4. Reactor sampling



*Following our quality procedures, each valve is checked before shipping.*



### **NO DEAD SPACE**

BIAR systems are designed to avoid dead space, improve cleanliness and avoid contamination.

### **SPRING-TO-CLOSE HAND WHEEL**

The actuators such as the Magic Hand Wheel provide an accurate flow and an intuitive use.

### **MANY ACCESSORIES AND OPTIONS**

The quick connection and accessory interchangeability provide a customised solution to meet your needs.

### **CUSTOMIZATION**

Our R&D department combined with 30 years of experience in the field allow us to find solutions to the most complex sampling problems.



Principle of conical seat





## BIAR – OUR KNOW-HOW AT YOUR SERVICE



### CONSULTATION AND FOLLOW-UP

To guarantee the quality of service, BIAR has a unique point of sale and production, allowing timely interactions and improving communication between technical consultants and different services from production to invoicing.

Our worldwide presence through regular site visits and contacts enables us to have a direct relationship with our customers.

### EXPERTISE AND DEVELOPEMENT

BIAR is the leader in engineering sampling solutions with its own design center. Experts at BIAR create specific solutions for customers' individual projects.

### AFTER-SALES SERVICES

To maintain our valves, we guarantee the supply of spare parts for 10 years. Furthermore, our repair workshop will take care of other important repairs.

#### AVAILABILITY

- A personal technical consultant that will follow up from the inquiry to the delivery.
- An American subsidiary
- A local agent

## IN-LINE SAMPLING VALVES AND ACCESSORIES

### ACTUATORS



Hand wheel



Hand lever



Pneumatic actuator



Hand wheel



Cooling extension

 *Spring-to-close actuators*

 *Manual closure*

### TYPES OF VALVES



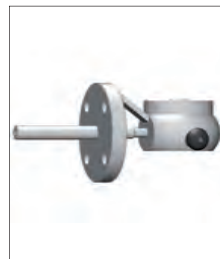
Horizontal stainless steel  
or PFA



Vertical stainless steel



Wafer type stainless steel  
or PFA



Lateral stainless steel

#### STANDARD CHARACTERISTICS

**Size:** DN10 to DN200 (½" to 8")

**Materials:** Stainless steel, Hastelloy® or Monel®,  
PFA lined

**Temperature:** -40 to 350°C (-40 bis 660°F)

**Pressure:** Vacuum to 160 bar (600 psi)

Other sizes and materials on request

### INTERCHANGEABILITY OF ACCESSORIES



Open receptacles



Partially closed receptacles



Closed receptacles

 *Security: Tailored to requirements*







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