REACTOR SAMPLING SOLUTIONS

TOP OF REACTOR

Pneumo-magnetic driven xflow systems and UPR ranges





SIDE MOUNTED

Flanged laterally mounted systems on reactor side





BY PASS
Sampling on by-pass lines with standard in-line valves



RAM or quantitative
Reactor bottom samplers





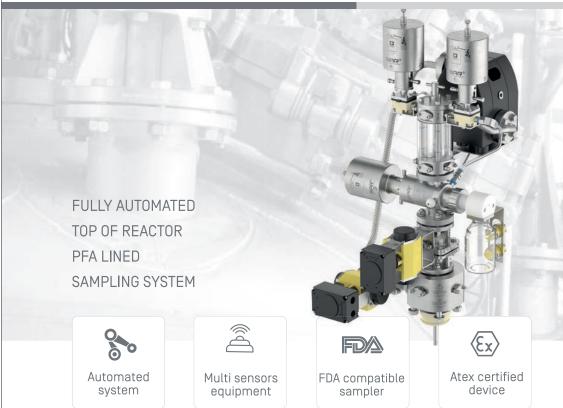
SWISS SAMPLING SPECIALIST SINCE 1983

Since 1983, BIAR SA has embodied Swiss excellence by designing and manufacturing sampling systems that meet the strictest quality and safety standards. As an industry pioneer, our aim is to improve the efficiency, sustainability, and reliability of industrial processes related to complex liquid sampling. Committed to act responsibly, sustainably, and innovatively at all times, BIAR follows three main pillars at the core of our approach: Safety, Efficiency, Simplicity.

CONTACT

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Maximise the safety and efficiency of your hazardous fluid sampling with the automated system UPR. Designed to ensure accurate and representative samples, this device incorporates bottle detection and filling sensors for risk-free operation. Its multiple connections simplify the installation of cleaning systems and sensors for monitoring pH, temperature, and redox potential. Its modular, adaptable design ensures the precise addition of liquids to the reactor, consolidating its reputation for versatility and precision.



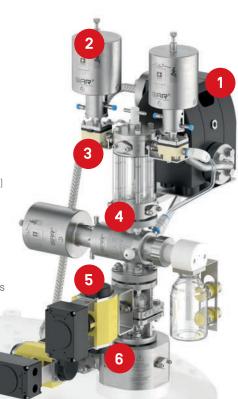
WWW.BIAR.COM SWISS MADE SINCE 1983

UPR SAMPLING SYSTEM

fully automated, sensor-equipped, easy to use top of reactor sampling solution

FEATURES

- Non-disruptive, quantitative sampling
- Corrosion resistant materials for wetted parts
- Operating pressures: 0 to 6 bar (0 psi / 87 psi)
- Operating temperatures : -20°C to 80°C (-4°F / +176°F)
- ATEX-certified system & automation
- Versatile connection range for measuring & rinsing
- Incorporates re-circulation pumps
- Fluid circulating back to reactor
- Required 4 bar min. air pressure to operate
- Designed for the precise & controlled addition of fluids



TECHNICAL DETAILS

1. Diaphragm pump

Recirculation pump ensuring representative sampling.

Materials: PTFE - Flow rate: 3.4 m³/h max - Viscosity: >2000 cP

2. Pneumatic valves

Diaphragm valve for recirculation & vent hole. Equipped with sensors. Materials PVDF, PTFE

3. Sampling cylinder

150 ml glass cylinder featuring 5 connections (rinsing, control)

Materials: Borosilicate, PFA

4. Sampling unit

Sampling valve with sensors (bottle detection, liquid level) featuring vent hole. Materials: PFA, PTFE

5. Ball valves

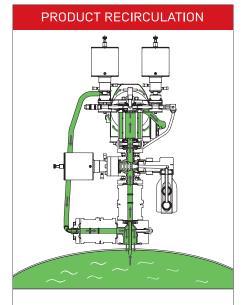
Pneumatically operated isolation ball valves controlled by sensors. Materials : PFA PS max : 16 bar TS -20 $^{\circ}$ to 180 $^{\circ}$ C

6. Flange and dip tube

Flange with 2 possible diameters with flexible PFA dip tube up to 4 m long. Material PFA $\,$

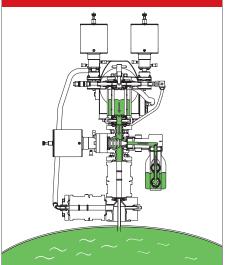
INITIAL PHASE

All valves closed, pump off. System isoltated from reactor



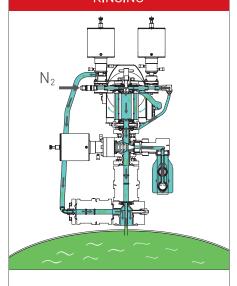
Pump on for liquid recirulation between reactor and system





Pump off, sampling with bottle dectection and liquid level control

RINSING



Isolation valves for nitrogen/solvent rinsing