



Pharma Reactor – Product Sampling

Data Sheet DS81-803-1



Figure 1: Top head sampling system with transfer device

Introduction

Reactor sampling systems are popular in bulk pharmaceutical and specialty chemical plants. Sampling is done to check product quality, purity, or to refine process procedures. Pfaudler's sampling systems are engineered to meet your specific process, dimensional and component requirements. The systems shown are representative of Pfaudler offerings.

Pfaudler offers two basic reactor sampling configurations:

The Figure 1 system uses a vessel top head nozzle to directly mount the sampling system. The sample tube is integrated to reactor contents through a baffle or dip tube. The sample is pulled from the reactor to a sight glass chamber for viewing prior to transfer to a sample bottle.

The Figure 2 system also uses a vessel top head nozzle to directly mount the sampling system. The sample tube is integrated to reactor contents through a baffle or dip tube. The sample is pulled directly from reactor to a sample bottle.



Figure 2: Top head sampling system with direct sample delivery

Key Features

- Opening the manway is not required
- Sample under process conditions
- Transfer device minimizes operator exposure to reactor contents
- Easy operation
- Direct mounting on all reactors
- Wetted components available in variety of materials such as 316, Alloy C276, PFA, PTFE, or glass
- Clean-in-place available

Applications

- High purity pharmaceuticals
- Specialty chemicals
- Liquid only

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