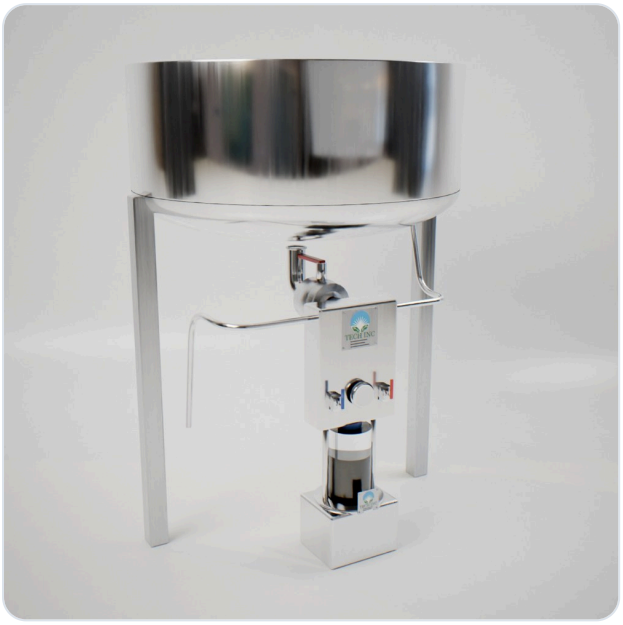
PRODUCT DATASHEET

Closed Reactor Sampler

Closed 150–250 ml sampler for pharma reactors





DETAIL – SAMPLER ON THE REACTOR NOZZLE

OVERVIEW

The Tech Inc. Closed Reactor Sampler (model TI-RS) lets an operator take a sample of a toxic or flammable reaction mass from a drug or chemical reactor into a sealed bottle without venting to air. Purge liquid returns to the reactor and the line is cleared with nitrogen, so the operator is not exposed and the batch stays inerted. It complements the TI-CLS closed-loop spot samplers used on pipelines and tanks.

MODELS AND CONFIGURATIONS

- **TI-RS** – closed reactor sampler for 150–250 ml samples, plain stainless steel.
- **With sample cylinder** – pressure-rated cylinder for samples taken under pressure.
- **Lined version** – PTFE-lined wetted parts for corrosive reaction mass, to client specification.

TYPICAL DESIGN DATA

Sample volume	150–250 ml
Wetted materials	SS316L, PTFE seals, or to client specification
Connection	Flanged or threaded to the reactor nozzle, to client specification
Purge	Nitrogen purge and return to process
Design code	Designed to ASME VIII or client specification

APPLICATIONS

Drug and API reactors, hydrogenation and pressure reactors, fine and specialty chemical batch reactors and pilot plants.

KEY ADVANTAGES

- **Operator safety** – no vapour release at the sampling point
- **Representative sample** – purge returns stale liquid before the sample is taken
- **Inert batch** – nitrogen purge keeps air out of the reactor
- **Low running cost** – reusable bottles, with seal and needle kits as the only spares

Designed and built by Tech Inc. · **Part of the Davey Group since 1990**

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