

Radial Flow-Catalyst Transfer Pipe

Product Coding
P320101XXX

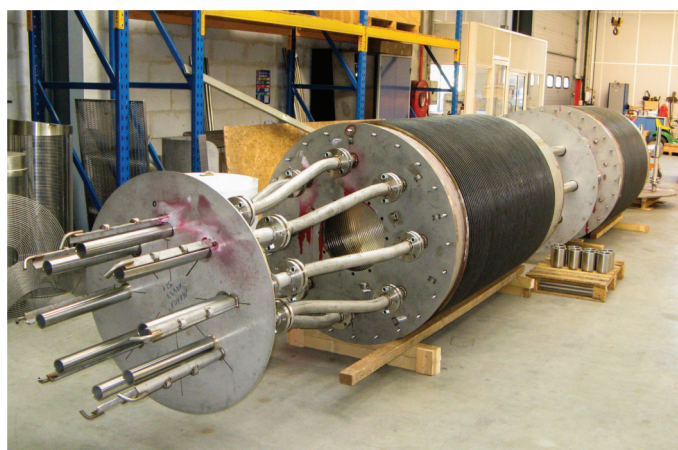
Introduction

Catalyst transfer pipe is a critical reactor internal component designed to provide controlled movement of catalyst between different reactor zones, beds, or regeneration sections.

It is primarily used in moving bed and CCR systems, where catalyst must be withdrawn, transported, and reintroduced while the unit remains in operation.

The transfer pipe ensures that catalyst flows smoothly, reliably, and without segregation or attrition, maintaining steady reactor performance and stable catalyst activity. Its mechanical integrity is essential for long term continuous operation in high temperature and high pressure environments typical of refinery and petrochemical reactors.

- Modular design for installation through reactor manways
- Custom engineered to match reactor geometry and process requirements



Features

- Designed for continuous and controlled catalyst flow
- Minimizes catalyst attrition and breakage
- Smooth internal surface geometry to prevent hang up and bridging
- Capable of operating under high temperature and pressure conditions
- Robust mechanical construction for long-term service
- Precise dimensional control to maintain catalyst flow stability
- Compatible with various catalyst shapes and sizes
- Can be integrated with lock hoppers, valves, and lift systems
- Fabricated from carbon steel, stainless steel, or high alloy materials

Applications

- CCR reactors
- Moving bed catalytic reforming units
- Aromatics and hydrogen production reactors
- Catalyst withdrawal and reintroduction systems
- High severity refinery and petrochemical processes
- Reactor revamp projects requiring catalyst circulation upgrades
- Any reactor system requiring continuous catalyst handling without shutdown



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