

Axial Flow-Catalyst Unloading Nozzle**Product Coding**
P31010901X**Introduction**

Catalyst unloading nozzle is a specialized connection or opening on the body of a reactor, designed to safely and controllably remove spent catalyst. It is usually located in the lower or sloped section of the reactor to allow unloading by gravity or with the help of vacuum/pneumatic systems.

Before this nozzle can be used, the reactor must be completely isolated from the process, drained of process fluids, and purged with an inert gas. This prevents hazards such as fire, explosion, or toxic gas release.

The unloading process must be carried out with great care to ensure proper collection, transportation, and disposal of the spent catalyst, because such materials may:

- Causes environmental contamination.
- Present respiratory hazards due to dust.
- Be pyrophoric in some cases.

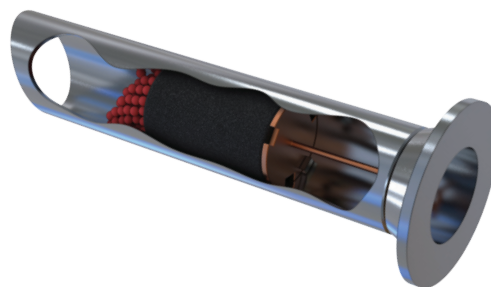
Therefore, the catalyst unloading nozzle is not just a physical outlet for removing catalyst, but part of a carefully planned and controlled safety operation, adapted to the specific reactor design and safety requirements.

**Features**

- Engineered for smooth and unrestricted catalyst discharge
- Robust mechanical construction to withstand catalyst abrasion
- Capable of handling high catalyst loads safely
- Compatible with lock hoppers, valves, and external catalyst handling systems
- Tight leak sealing arrangement for pressure and environmental safety
- Resistant to erosion and mechanical wear
- Fabricated from carbon steel, stainless steel, or high alloy materials
- Custom nozzle size and geometry based on reactor diameter and catalyst properties
- Easy integration with existing reactor internals and piping systems

Applications

- Axial flow fixed bed catalytic reactors
- Hydrotreating, hydrocracking, hydrogenation units
- Petrochemical and refining catalyst beds
- Chemical synthesis reactors
- Support and retention for catalyst, adsorbents, and inert layers



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