

Radial Flow-Expander Ring

Product Coding
P310208XXX

Introduction

Expander ring is a structural reactor internal designed to provide a secure mechanical interface between internal components and the reactor shell.

Installed around the internal circumference of the vessel, the expander ring ensures accurate positioning, load transfer, and stability of key internals such as distributor decks, support grids, or catalyst retention systems.

By compensating for thermal expansion, vessel tolerances, and installation misalignment, the expander ring helps maintain the integrity of the reactor internals throughout startup, shutdown, and long term operation under high pressure and high temperature conditions.

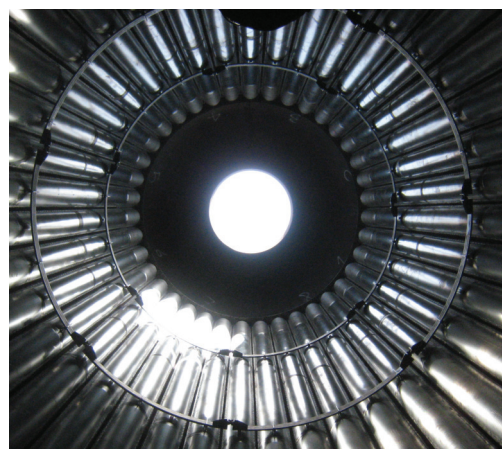
Features

- Provides reliable radial support and alignment of reactor internals
- Accommodates thermal expansion and contraction
- Ensures uniform load distribution to the reactor shell
- High mechanical strength for heavy internal assemblies

- Prevents movement and vibration of internals during operation
- Robust segmented construction for installation through manways
- Precision machined contact surfaces for tight tolerances
- Resistant to distortion under severe operating conditions
- Available in carbon steel, stainless steel, and high alloy materials
- Custom designed for each reactor diameter and service condition

Applications

- Support of liquid distributors, collection systems, and center pipes
- Positioning of catalyst support grids and bed limiters
- Fixed bed, moving bed, and CCR reactor internals
- High pressure hydrotreating and hydrocracking reactors
- Aromatics and hydrogen production reactors
- Reactor revamp and modernization projects



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