

Radial Flow-Conical Cover Plate**Product Coding**
P320105XXX**Introduction**

Conical cover plate is a specialized variant of the reactor cover plate featuring a sloped, conical geometry designed to enhance drainage, strength, and sealing performance within radial flow internals.

The conical shape improves mechanical rigidity while ensuring smooth catalyst handling, preventing catalyst hang-ups near the top of scallops or center pipes. Like the flat cover plate, the conical version is fully tailored to reactor dimensions and can be manufactured in multiple segments for easy installation. The sloped design delivers improved load distribution, making it ideal for reactors with heavy catalyst beds or where optimized flow guidance is required.

**Features**

- **Conical geometry:** Enhances structural rigidity and improves liquid/catalyst drainage.
- **Sealing:** Provides excellent sealing between scallops and support internals.
- **High mechanical strength:** Fabricated from stainless steel or alloy materials to withstand high temperature and pressure.
- **Corrosion and erosion resistant:** Surface treatments such as pickling and passivation ensure long service life.
- **Custom engineering:** Designed according to vessel dimensions, process conditions, and ASME material standards.
- **Ease of maintenance:** Modular construction enables quick removal and reinstallation during shutdown or catalyst change out.

Applications

- Hydrodesulfurization and Hydrodenitrogenation units
- Styrene dehydrogenation reactors
- Ammonia converters
- Petrochemical and refinery reactors with radial or axial radial flow designs
- Any reactor requiring uniform sealing and mechanical protection of catalyst beds



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