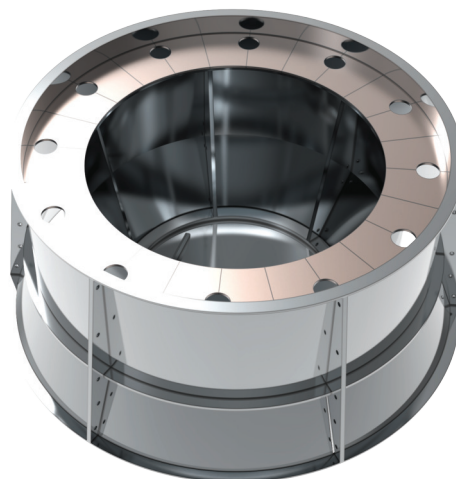


Radial Flow-Cover Plate**Product Coding**
P320105XXX**Introduction**

Cover plate is a precision engineered component installed on top of scallops, center pipes, or catalyst retention baskets in radial flow reactor systems.

Its primary function is to seal the upper section of the catalyst bed, preventing catalyst migration and ensuring uniform radial flow distribution through the reactor internals. Each plate is custom fabricated according to the vessel's geometry and process requirements. Segmented designs are available to accommodate catalyst loading pipes, transfer lines, and instrumentation, ensuring easy handling during installation and shutdown operations. Manufactured from stainless steel or high alloy materials, the cover plate offers outstanding performance in high temperature, high pressure, and corrosive service conditions.

**Features**

- **Precise fit and sealing:** Provides tight sealing between scallops or baskets, minimizing bypass and ensuring efficient radial flow.
- **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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