

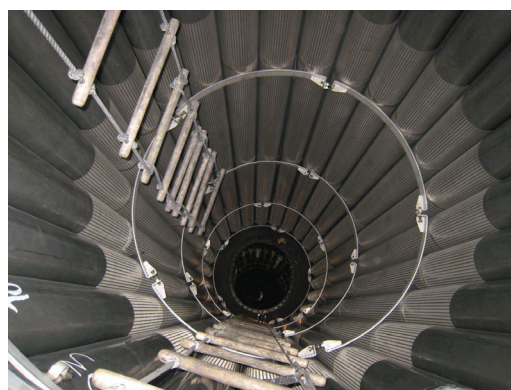
Radial Flow-Scallops

Product Coding
P310207XXX

Introduction

Scallops are assemblies composed of D-shaped segments aligned parallel to the vessel's height. The outer surface of each scallop is tangent to the vessel's inner wall, while the inner surface defines the bed profile. Each scallop is designed to pass through the vessel's manhole for installation. In the assembled configuration, the scallops are positioned side-by-side, forming a continuous arrangement. They are self supported on a support ring welded to the vessel's inner wall and secured at designated levels using an expander ring. The annular space between the scallops and the center pipe, above the catalyst bed, is sealed by a cover plate assembly. Compared to traditional outer basket designs, scallops are often preferred due to easier installation and maintenance, as well as increased catalyst capacity.

- Fabricated from carbon steel, stainless steel, or special alloys
- Custom engineered to match reactor diameter and process conditions



Features

- Curved or contoured geometry for smooth redirection of flow with opening slot of 50 μm
- Eliminates wall side channeling and stagnant zones
- Improves radial flow distribution across the catalyst bed
- Enhances catalyst wetting and reaction uniformity
- Reduces risk of localized hot spots or catalyst deactivation
- High mechanical strength under pressure and thermal cycling
- Precision fabricated for close fit with reactor shell and internals
- Segmented design for easy installation through manways
- Compatible with liquid distributors, collection systems, and support grids

Applications

- Radial structured reactors
- Fixed bed and moving bed radial reactors
- Hydroprocessing units
- Aromatics and hydrogen production units
- Reactor revamp projects to correct wall-side maldistribution



Tel.: +98 21 88686942-3
 Fax: +98 21 88686168
 Marketing@euroslotpars.com



www.euroslotpars.com
 LinkedIn.com/company/euroslotpars
 Youtube.com/@euroslotpars2863



Office: No. 2, Unit 2, East 32nd
 (East Qeysari) St., South Allameh Ave.,
 Sa'adat Abad Area, Tehran, Iran