

## Radial Flow-Center Pipe

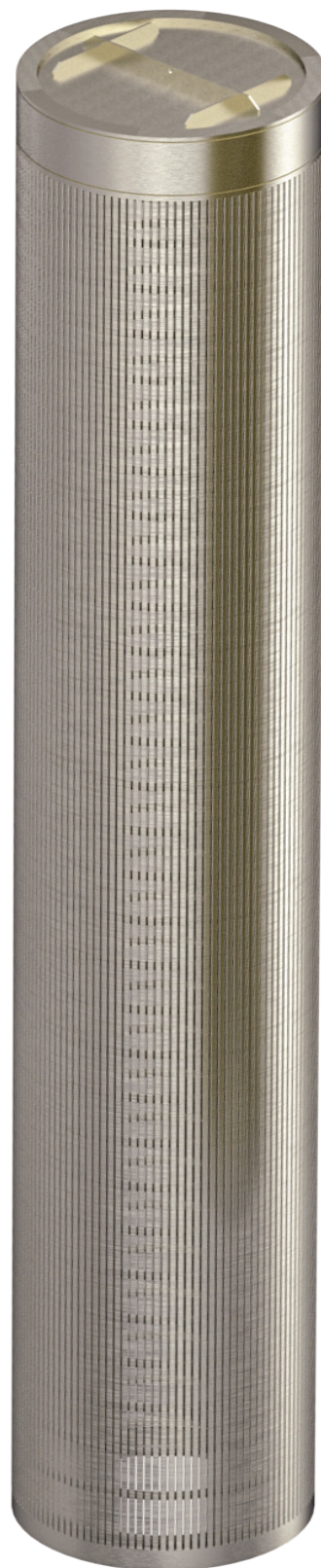
Product Coding  
**P320104XXX**

### Introduction

In radial flow systems, the center pipe or inner screen plays a key role in collecting or distributing flow. It is cylindrical, installed through the top manhole of the reactor, and supported to stay in position. Flow direction can be inward or outward. Because this area experiences higher temperature and concentration, the center pipe is typically made from heat resistant materials like stainless steels and nickel based metals. Its design depends on gas flow rate, pressure drop, catalyst weight, and mechanical forces to ensure resistance against collapse or bursting. The pipe consists of an outer V-Wire screen with a smooth surface and an inner perforated cylinder for support. Vertical slots help prevent clogging, reduce pressure drop, and protect the catalyst.

### Features

- Custom designed to fit the application, suitable for any mechanical load, catalyst size, height, or diameter.
- V-Wire screen with high open area, precisely manufactured with tight dimensional and slot opening of 50 µm for optimal flow distribution.
- Laser checks for plumpness and straightness at each production step ensure perfect centering to the vessel axis during installation.
- Tight tolerances ensure no catalyst damage or escape during operation and a perfect fit with the vessel interface.
- Euroslot Pars provides on-site technical assistance to ensure proper installation and compliance with all requirements.



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### Applications

- Axial and fixed bed reactors
- Moving bed catalytic reforming units
- Radial flow hydroprocessing reactors
- Aromatics and hydrogen production reactors
- High pressure refinery and petrochemical units
- Reactor revamp projects requiring improved flow uniformity
- Any fixed or moving bed reactor requiring precise catalyst containment and fluid collection



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