

Column Tray-Sieve Tray**Product Coding**
P11011....**Introduction**

Sieve trays have been widely used as tower internals in distillation and absorption columns since the 1950s, thanks to their simple design, ease of fabrication, and cost effectiveness. Their flat perforated plates (usually 13mm in diameter) provide efficient gas/liquid contact and are suited for a wide range of mass transfer processes in refining, petrochemical, and chemical industries. Sieve trays are a reliable choice where process conditions are well defined and high turndown is not critical.

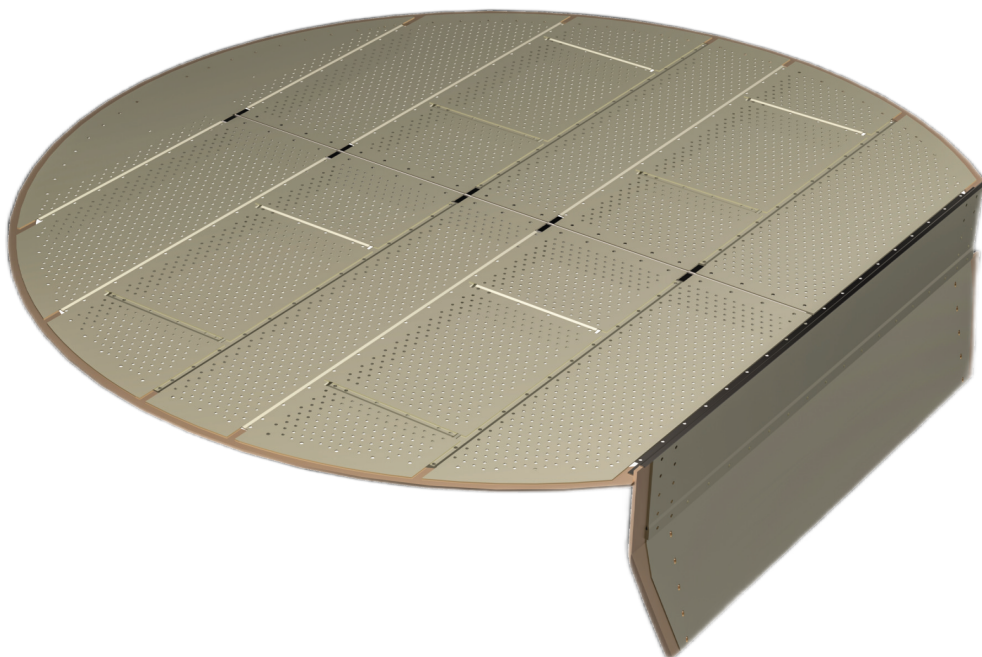
Features

- Moderate efficiency
- High capacity
- Low to moderate pressure drop
- Moderate fouling resistance

- Low turndown ratio: typically 2:1 (unsuitable for varying loads operating)
- Simple and economical design
- Open area typically between 5% to 15%
- Easy inspection and maintenance due to flat surface
- Moderate entrainment at high vapor rates

Applications

- Distillation
- Absorption
- Liquid/liquid extraction systems
- Clean or moderately fouling services
- Not recommended for processes requiring high flexibility or very low pressure drop
- Most columns where turndown not important



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