

Random Packing Support

Introduction

In packed columns using random packing, metal rings or other shaped elements are used to promote gas/liquid contact, rather than trays. These packing elements are poured into specific sections of the tower, supported by cross grid bars or gas injection type support plates. The supports are spaced close enough to prevent the packing elements from falling through, while still providing a high percentage of free area for vapor to rise and liquid to flow downward. Liquid is introduced at the top of each packed section through a distributor pipe or spray system, ensuring uniform wetting of the packing surface. Unlike trayed towers, there are no specific orientation requirements for the packing, distributor, or supports. The gas injection type or multistream gas injection type support plates are typically recommended for random packings, as they allow the bed to reach maximum efficiency and prevent premature flooding. Connections of major packing supports to the vessel walls must be designed to provide full mechanical strength and withstand any associated moments or loads.

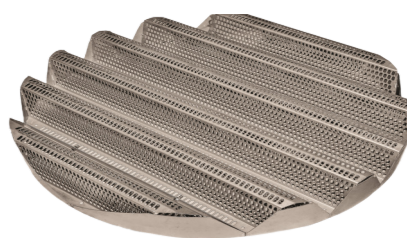
- Resistant to corrosion, erosion, and thermal cycling
- Manufactured from carbon steel, stainless steels, Duplex, or special alloys

Applications

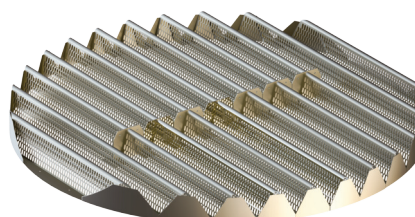
- Any mass transfer and random packing packed towers
- Boiler feedwater and cooling water treatment
- Power plant and utility water systems
- Chemical and petrochemical process water purification
- Pharmaceutical and biotechnology water systems


Type A

P152401XXX


Type B

P152402XXX


Type C

P152403XXX

Features

- Securely supports random packing beds under operating and upset conditions
- High open area design for low pressure drop and efficient gas/liquid flow
- Prevents packing loss and migration into downstream equipment
- Designed for high mechanical loads including packing weight and liquid holdup
- Modular construction for easy installation through manways
- Perimeter sealing to eliminate wall bypass



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