Products

Column Trays

Column Trays - Finepac™ offers following different types of trays:

Finepac™ are able to design and manufacture all types of conventional counterflow trays (with the exception of certain proprietary types) for any column size and from any metallic material that can be worked using punching and bending processes. The scope of work undertaken by Finepac™ can vary to suit the individual project or maintenance requirement of custom fabrication of trays or tray parts as per customer design and specifications to complete installation.

Tray Configuration

Key tray design parameters which impact on column operation:

- Active Area (or Bubble Area)
- Downcomer Area
- Open Area (or Hole Area)
- Tray Spacing
- Downcomer Clearance
- Outlet Weir Height
- Flow Path Length
- Number of Flow Paths

Tray Types:

Valve Trays - have perforated tray decks fitted with moveable discs (valves) to vary the tray open area with changing vapour load. There are numerous proprietary valve types which may either have legs fitted to the valve disc to restrict upwards movement or alternatively the valve disc movement is restricted by a "cage" fitted to the tray deck.

- Wide range of efficient turndown. (10 : 1)
- Mixed weight valves for stable operation.
- Wide range of efficient turndown.
- Anti fouling across the tray deck and walls of the vessel.
- Up to 3 times stronger decks.
- Higher Jet flood characteristics.
- Steady liquid movement across the tray deck.
- Enhanced Vapour and liquid contact.
- Non moving or separate parts.
- Low Cost.
- Easy tray retrofits.

Bubble Caps - Consist of bell shaped caps fixed to cylindrical risers through which the vapour passes the tray deck. The major advantage of using Bubblecaps is that because they form a positive liquid seal, they will function effectively over a very wide turndown range without weeping.

Features Include:

- High operation turn down
- Low liquid/Vapour flow rates

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Sieve Trays - Have tray deck areas uniformly perforated with round holes. Tray designs with perforations as small as 6mm or as large as 25mm are common with 13mm (or 0.5") being the most commonly used. Sieve Trays are inexpensive to manufacture and are therefore usually the most economic device where turndown range is not required.

- 2:1 Turndown
- Good overall efficiency in clean services
- Tried and tested performance
- Low cost