trays R us.
Whether you are designing a new column, revamping an existing column or just carrying out maintenance, whatever your requirement is for trays, we have the answer.

We design, manufacture and install all types of trays including, but not limited to, dual flow trays, baffle trays, disc and donut trays, sieve trays, valve trays, bubble or tunnel cap trays.

Let our considerable experience and expertise assist you in making and implementing the most appropriate solution, at minimum cost, not only to achieve the desired throughput but also to accommodate feed rate variations and minimise downtime.

**FXV Valve Trays**

The FXV valve is a stationary (fixed) valve pressed up from the tray deck and is supplied in 4 different sizes with varying lifts:

<table>
<thead>
<tr>
<th>Size</th>
<th>FXV20</th>
<th>FXV30</th>
<th>FXV60</th>
<th>FXV110</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double-Mini</td>
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<tr>
<td>Mini</td>
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<tr>
<td>Standard</td>
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<tr>
<td>Large</td>
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</tbody>
</table>

Compared to sieve trays, the FXV valve trays give:

- higher capacity
- greater flexibility with a normal operating range of 3 to 1
- increased mechanical strength
- longer service life
- higher efficiency (due to distinct trapezoidal shape giving plug flow)

FXV valves are excellent for fouling services e.g. for columns within a HF Alkylation Unit.
STD Valve Trays

The STD valve is an industry standard movable valve.

The valve is made in one piece with 3 legs and is normally supplied with dimples to limit the contact with the tray deck to 3 points when shut.

These valves are used for general applications except where there is a risk of fouling.

Alternate rows of light valves (1.5mm thick) and heavy valves (2.0mm thick) are used to maximise turndown. Typical operating range is 4 to 1.

Very light valves (1.2mm thick) are used to minimise the (dry) pressure drop.

RMV Valve Trays

The RMV valves are rectangular shape movable valves used for general and special applications.

Two sizes are used to suit the column diameter:

RMV60    small diameter columns
RMV120    large diameter columns

The rectangular shape offers the following advantages:

- Maximum open area for high vapour load services
- Variable open area to suit vapour flow
- Higher efficiency due to plug flow

NCD Valve Trays

The NCD valve is a 2 piece valve, where a 4-legged hold down cage (securely attached to the tray deck) contains a movable valve disc.

These valves are used for general applications like the STD valve but with the following advantages:

- Longer lasting in service
- Less risk of sticking shut or open
- Suitable for fouling services
- Increased flexibility due to less liquid weeping

Alternate rows of light (1.5mm thick) and heavy (2.0mm thick) discs can be used to maximise turndown.

VCD Valve Trays

These are NCD valves with a very light disc (1.2mm thick) plus a venturi hole to minimise (dry) pressure drop.
PROPRIETRAY Trays

Examples include:

- Disc & Donut Trays
- Ripple Trays
- Uniflux (Tunnel Cap) Trays
- Thormann Trays

Disc and Donut Trays - Bundle Construction
2600mm Diameter Deaerator Tower

Uniflux (Tunnel Cap) Trays, 3658mm Diameter Rerun Main Column

Ripple Trays
5791mm Diameter Ethylene Quench Tower / Primary Fractionator

Montz Thormann Titanium Tray + collector tray
3600 mm Diameter / HCl Scrubber