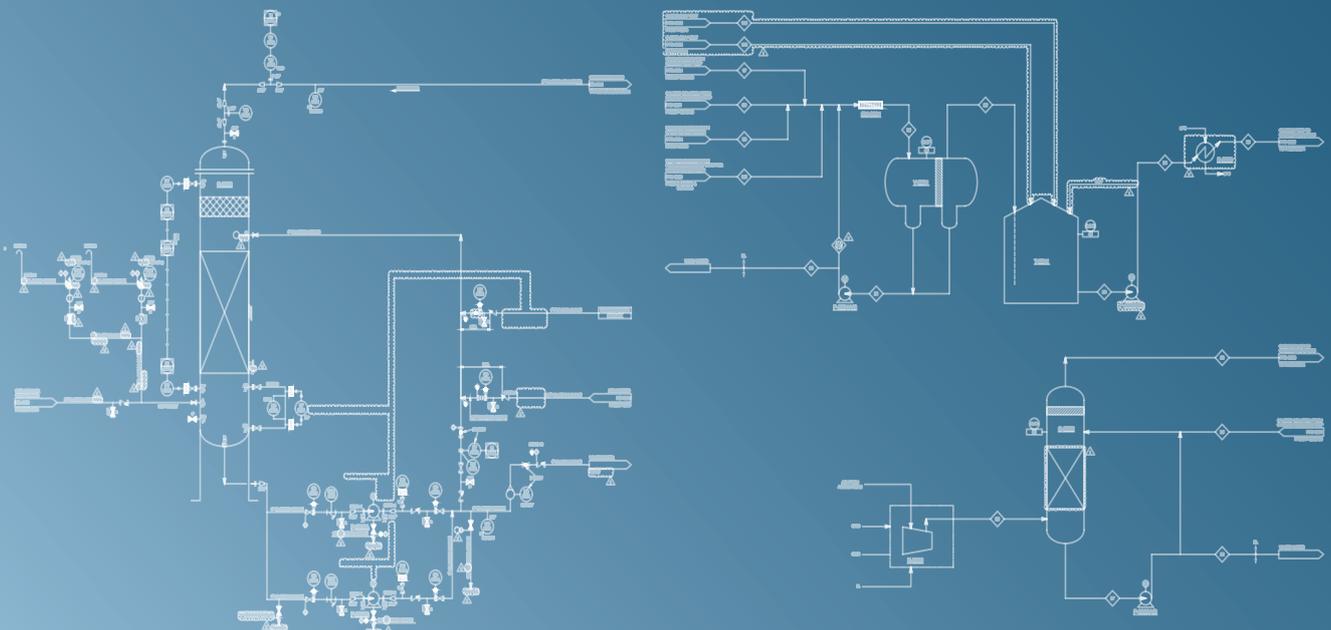
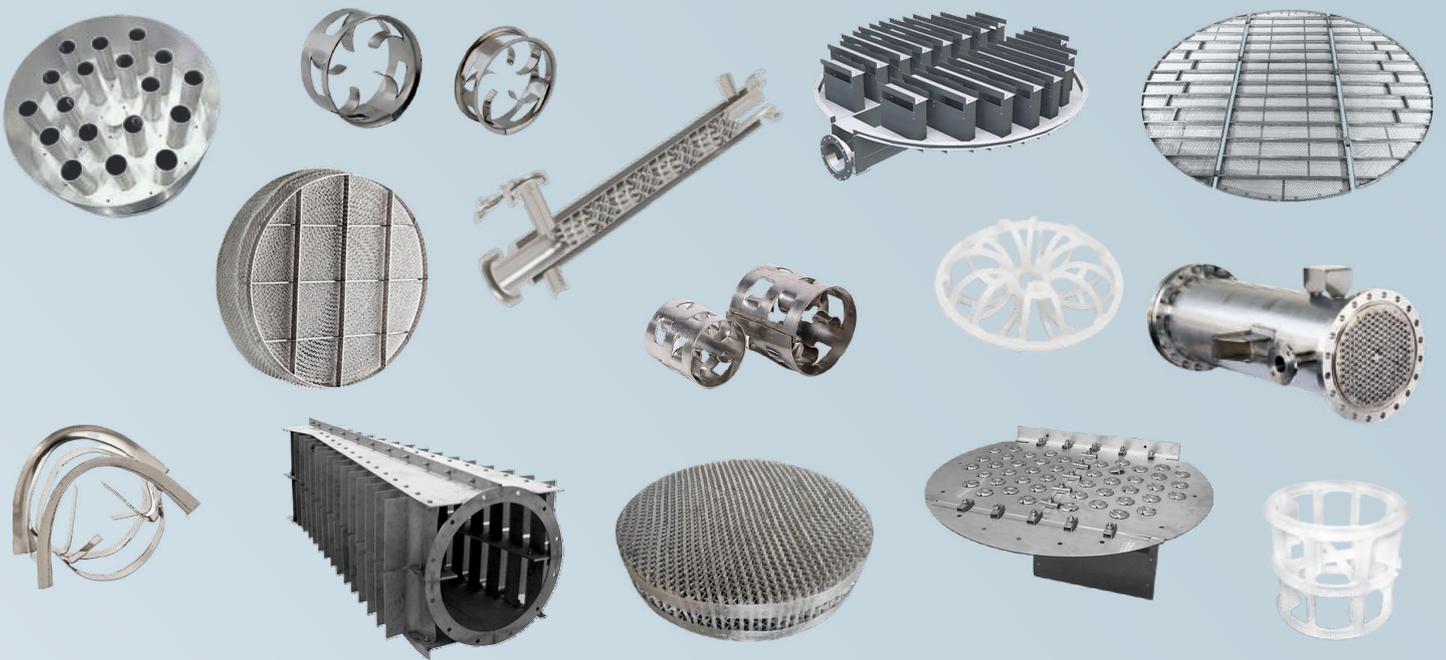


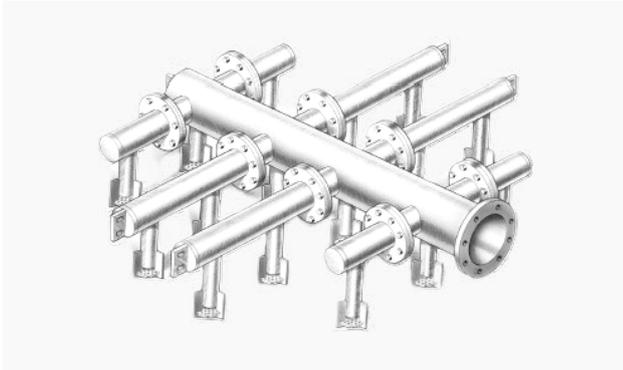


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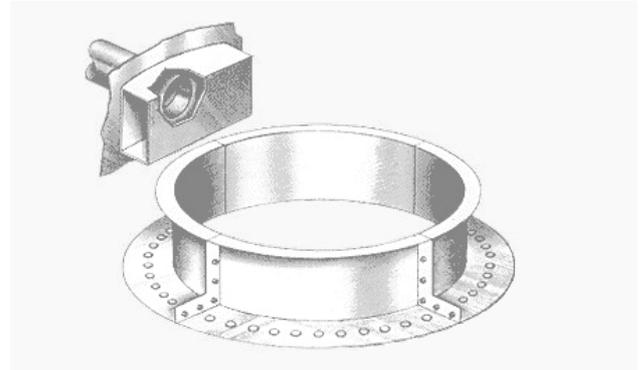
## Feed Devices

### Liquid Only Feed Pipe



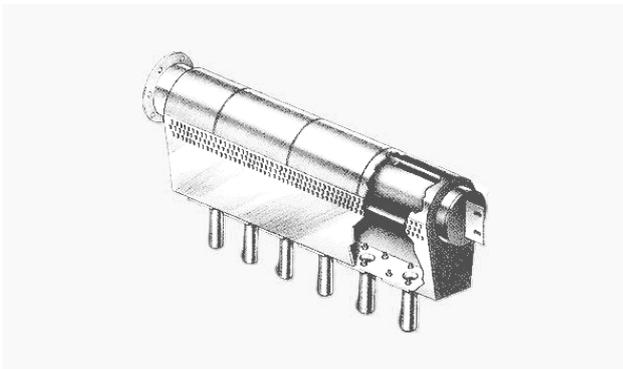
The liquid only feed pipes are used when liquid is fed from outside the column into the distributor. The feed pipe is a piping system of headers, lateral branches, and downpipes. It is limited in turndown to a 2:1 ratio and perhaps slightly more.

### Flashing Feed Gallery



The flashing feed gallery is a two-phase feed device fed by a tangential tower or a radial nozzle with a flow detector. The flashing feed gallery is recommended for tower 900 mm ID and larger and handles any liquid to vapor feed ratio

### Flashing Feed pipe



The flashing feed pipe is used to separate a two-phase feed when the inlet flow is in a separated flow region, the two-phase flow enters the center pipe. This is most often used for vacuum services in towers larger than 1200 mm ID.

### Vapor Distributor



The pipe arm vapor distributor is used when the feed requires uniform distribution over the tower area. Turndown ratio generally 4:1; however, higher ratios are possible, provided the pressure drop is not excessive for the process. This device can be used in towers larger than 430 mm.

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