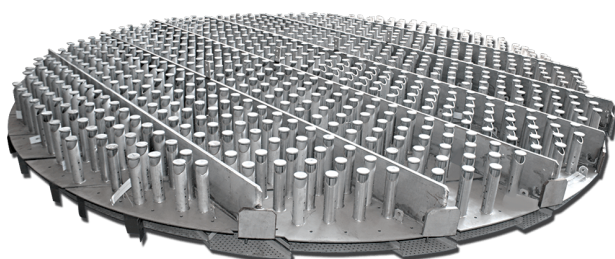


Liquid Distributor-Equiflow Redistributor**Product Coding**
P310107XXX**Introduction**

Equiflow redistributor is a reactor internal designed to collect, rebalance, and uniformly redistribute liquid between successive catalyst beds or process zones. Its primary function is to correct any maldistribution that may develop in the upstream bed and to restore uniform flow conditions before the fluid enters the next catalyst layer.

The redistributor system consists of an equiflow tray equipped with multiple flow control nozzles, combined with a perforated plate installed below the tray. The equiflow tray divides the incoming flow into multiple equal streams using a controlled restriction (venturi effect), while the perforated plate below ensures final redistribution and even spreading across the full reactor cross section.

This two stage redistribution concept ensures consistent residence time, optimal catalyst utilization, minimized radial temperature gradients, and reduced risk of catalyst deactivation, even under varying inlet conditions, high pressures, or increased flow rates typical of revamp projects.

**Features**

- Designed specifically for intermediate redistribution between catalyst beds
- Equiflow tray for hydraulic flow balancing
- Perforated plate below for final flow equalization and uniform spreading
- Maintains plug flow behavior and uniform residence time
- Highly suitable for high pressure reactors, where uniformity is critical
- Custom hydraulic and mechanical design for each process
- Fabricated from high grade alloys resistant to temperature, pressure, and corrosion
- Compact design allowing installation in limited vertical space
- Mandatory workshop trial assembly and dimensional verification
- On-site technical support available during installation

Applications

- Axial and fixed bed reactors with multiple catalyst layers
- Adiabatic reactors requiring intermediate redistribution
- High pressure reactors where flow maldistribution must be minimized
- Reactor revamp projects with increased bed capacity or higher inlet flow rates
- Gas/liquid reactors where redistribution quality directly affects performance



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