

Reactor Internal-Drip Ring**Product Coding**
P3XXXXXXXX**Introduction**

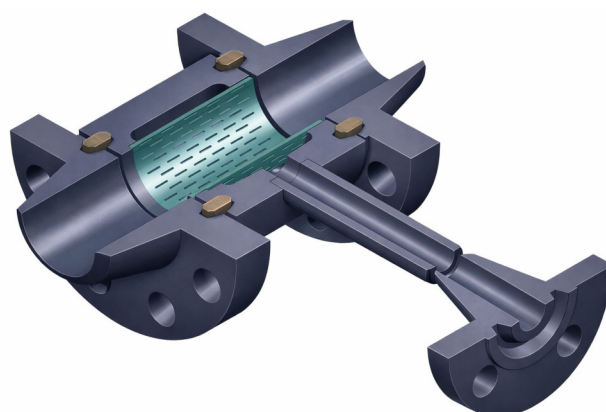
Drip ring is a ring shaped fitting with a bore, designed according to ASME B13.3 and ASME B16.5 standards, and installed between the flanges of two valves or flanged equipment. It is mainly used in piping and process systems where space is limited for installing pressure taps, sampling ports, or valve leak monitoring, and where cost reduction is also a concern. The bore is typically 6 to 13 mm in diameter. While some liquid or condensate may collect and exit through the bore, the small size of the opening means the drip ring is not intended for liquid drainage, but rather for safe sampling, measurement, and leak control. In catalyst circulation systems (e.g., reactor, regenerator, stripper, storage), drip rings play an additional safety role. They manage seals and prevent leaks at vessel penetrations and piping connections by collecting and diverting small amounts of catalyst fines, seal oil, nitrogen carried hydrocarbons, or slurry. This prevents hazardous drips on hot piping or insulation, reducing risks of fire, corrosion, or equipment damage. Drip rings also provide a monitored drain point, serving as an early warning system for seal integrity issues.

Features

- Pressure measurement and sampling in tight piping layouts.
- Leak monitoring and seal management at lock-hopper flanges, lift-line connections, and injection nozzles.
- Protection of insulation and steel structures by diverting leaks away from hot surfaces.
- Enhancing operator and equipment safety by preventing the accumulation of catalyst fines or fluids on platforms and equipment.

Applications

- Moving bed and fixed bed reactors
- Hydrotreating and hydrocracking units
- Hydrogenation and reforming reactors
- Gas/liquid catalytic reaction systems
- Refinery and petrochemical reactors requiring precise liquid distribution
- Reactor revamp projects targeting improved catalyst wetting and performance



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