

Hopper**Product Coding****P6.....****Introduction**

Hopper is a funnel shaped vessel designed to receive, concentrate, and discharge materials in a controlled way. It uses gravity to guide the material downward, making it an efficient transition point between different stages of a process.

A collecting hopper sits beneath equipment such as filters, cyclones, screens, dust collectors, or conveyors. As material drops into the hopper, its sloped walls prevent buildup and ensure smooth movement toward the outlet. The hopper may feed the material into a conveyor, screw feeder, pump, or storage bin, depending on the system.

Hoppers can handle many types of solids, granules, powders, sludge, or debris. In filtration and watertreatment systems, a hopper often collects separated solids or sludge before they are removed or further processed. In industrial environments, it helps regulate the flow of materials so the downstream equipment receives them at a steady, manageable rate.

Applications

- Water and wastewater treatment (to collect sludge or solids)
- Industrial filtration systems
- Silos and material handling operations
- Dust collection systems
- Mining and food processing industries

**Features**

- **Collecting:** Receives material from upstream equipment (e.g., filters, cyclones, conveyors)
- **Storing temporarily:** Holds the material until it is discharged
- **Directing flow:** Its sloped/funnel design guides the material downward by gravity
- **Discharging:** Releases the material into another system, such as a conveyor, pump, bin, or disposal system



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