

A **plumbing hex nipple** is a short piece of pipe featuring male threads on both ends and a distinct **hexagonal center section**. This hexagon shape provides a flat surface for a wrench to securely grip, making it simple to tighten or loosen the fitting during installation.

Main Purpose

- **Joins two female fittings:** Connects two pipes or hoses that both have internal (female) threads.
- **Acts as an extension:** Bridges gaps or extends pipe length in tight installations.
- **Converts thread styles:** Can act as a reducer if you need to connect two different pipe sizes together.

Common Applications

- **Bathroom and Kitchen Fixtures:** Frequently used to link water supply lines to washbasin faucets, health faucets, and toilet spray guns.
- **Appliance Hookups:** Connects geysers, water heaters, and washing machine inlets.
- **Industrial Fluid Systems:** Used in high-pressure hydraulic circuits, chemical handling, and compressed air lines.

Common Types & Materials

| Material | Key Feature | Common Use Case |
|-------------------------------------|--|--|
| Brass / Chrome-Plated Brass | High corrosion resistance, sleek look | Exposed bathroom taps and kitchen sinks |
| Stainless Steel (SS 304/316) | Heavy-duty, rust-proof, high durability | High-pressure, water lines, and chemical pipes |
| Galvanized Iron (GI) | Rugged, cost-effective steel coating | Standard household water supply lines |
| CPVC / UPVC | Lightweight plastic, no scale deposition | Hot and cold domestic plastic piping networks |