

Industrial Pipe Fitting Analysis

This document provides an overview of the black plastic pipe fitting depicted in the provided imagery.

Component Overview

The subject is a durable, black plastic (likely polypropylene or high-density polyethylene) pipe fitting. A key design feature is the integrated **bail handle** (or U-shaped lifting loop) attached to the main body via metal pivots on either side. This handle allows for manual positioning, lifting, or alignment during installation, maintenance, or operation.

Key Structural Features

- **Threaded Interface:** The fitting features a prominent internal threaded section, designed for a secure, leak-proof connection to compatible pipes or other components.
- **Bail Handle (Lifting Loop):** The handle mechanism suggests this component may be used in applications where accessibility, frequent handling, or installation assistance is required, such as in agricultural irrigation systems, industrial setups, or temporary plumbing assemblies.
- **Material Construction:** The black material is typical of industrial-grade, corrosion-resistant plastic fittings, chosen for its strength and suitability for harsh environments.

Potential Applications

Based on its design, this fitting is likely utilized in fields that require modular, manageable pipe connections, including:

- **Agricultural Irrigation:** Connecting sections of irrigation pipe that may need to be adjusted or moved seasonally.
- **Industrial Water Management:** Managing flow in systems where specific fittings must be easily reachable or handled by personnel.
- **Tubewell/Borewell Components:** Similar mechanisms (often called "bail plugs" or similar variations) are frequently employed to assist in the installation and extraction of column pipes in well assemblies.

Document generated for technical reference based on visual analysis.