

Technical Analysis: Industrial Pipe Fitting

This document provides a summary of the black plastic pipe fitting, featuring an integrated bail handle mechanism, as illustrated in the provided imagery.

Design Features

The component is an industrial-grade, corrosion-resistant plastic pipe fitting. Key design features include:

- **Integrated Bail Handle:** A U-shaped lifting loop attached via metal pivots, designed for easier manual handling, positioning, and alignment.
- **Threaded Interface:** Features a robust internal thread, ensuring a secure and leak-proof connection to compatible irrigation or fluid transport piping systems.
- **Material Construction:** Made from high-strength polymer, suitable for harsh outdoor and agricultural environments.

Applications

This type of fitting is primarily employed in scenarios that demand modular, manageable, and rapid-deployment pipe connections, including:

- **Agricultural Irrigation:** Essential for seasonal or portable irrigation setups where pipe sections must be frequently relocated.
- **Industrial Water Management:** Used in systems where specific fittings must remain accessible for maintenance or operational adjustments.
- **Borewell/Tubewell Assemblies:** Often utilized as a specialized fitting to facilitate the installation and management of column pipes in well systems.

Technical brief generated for reference based on visual analysis.