

Technical Product Summary: Industrial Pipe Fitting

Component Overview

This technical summary documents the features and functional utility of the industrial-grade, black polymer pipe fitting as identified through visual analysis of multiple angles.

Key Structural Features

- **Durable Construction:** Fabricated from high-strength, corrosion-resistant industrial polymers (e.g., HDPE or polypropylene), designed for longevity in outdoor and demanding field conditions.
- **Ergonomic Handling Mechanism:** Features an integrated, pivoted U-shaped bail handle. This mechanical design facilitates manual handling, lifting, and precise alignment during assembly or maintenance tasks.
- **Robust Interface:** Equipped with a precision-machined internal threaded interface, engineered to provide a high-integrity, leak-proof seal under operating pressures.

Operational Applications

This fitting is specifically engineered for modular, high-efficiency fluid transport systems, including:

- **Agricultural Irrigation:** Essential for portable irrigation lateral lines that require rapid assembly, relocation, and re-coupling throughout the growing season.
- **Industrial Fluid Management:** Supports scalable, modular plumbing configurations where quick access and maintenance are critical.

- **Well/Tubewell Systems:** Frequently employed in the installation and extraction of column pipes, where the handle assists in stabilizing and securing the pipe during operations.

Technical brief generated for reference based on visual component analysis.