

Technical Product Summary: Pipe Fitting

This document synthesizes the design and functional overview of the industrial-grade pipe fitting component previously analyzed.

Key Technical Specifications

- **Material:** High-strength, corrosion-resistant industrial polymer (HDPE).
- **Design:** Modular fitting with an integrated, pivoted U-shaped bail handle for ergonomic manual handling and installation.
- **Connection Type:** Internally threaded interface, designed for secure, leak-proof high-pressure connections.

Operational Context

The design prioritizes portability and rapid setup. This fitting is specifically tailored for:

- **Agricultural Irrigation:** Enhancing the mobility of temporary lateral pipe networks.
- **Industrial Fluid Transport:** Enabling quick adjustments and maintenance in modular plumbing setups.
- **Borewell Assemblies:** Facilitating the management of column pipe sections during installation and extraction.