What is Pull-Out Forming Technology?

Pull-Out Forming Technology is an advanced manufacturing process used to create branch connections directly from the wall of a stainless steel header pipe, without inserting separate branch fittings into cut openings.

Instead of welding an additional pipe onto a drilled hole, the branch outlet is mechanically formed by pulling and shaping the parent pipe material outward. The branch is then finished and welded externally, creating a smooth and continuous internal flow path between the header and the branch connection.

Why is it important?

In booster pump system manifolds, water flow efficiency is directly affected by the internal geometry of the manifold. Traditional fabricated branches often create abrupt transitions, weld protrusions, and uneven internal surfaces that can increase turbulence and pressure loss.

Pull-Out Forming Technology helps address these issues by providing:

• Smoother internal flow transitions	• Reduced turbulence at branch connections
• Lower hydraulic losses	• More uniform flow distribution between pumps
• Improved structural strength through continuous material reinforcement	• Reduced risk of internal weld defects and crevice formation
• Better long-term reliability and corrosion resistance	

How does it benefit booster systems?

A well-designed manifold is not simply a pipe assembly—it is a hydraulic component that influences the overall performance of the booster system.

By minimizing flow disturbance and pressure loss, Pull-Out Forming Technology helps:

- Improve system efficiency
- Reduce pump energy consumption
- Maintain stable operating pressure
- Enhance flow balance across multiple pumps
- Support longer service life of pumps and system components

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Traditional Welding vs. Pull-Out Forming

Traditional Welded Branch	Pull-Out Formed Branch
• Separate branch pipe welded onto a cut opening • Potential internal weld protrusions • Higher turbulence and localized pressure loss • Greater dependence on welding quality	• Branch formed directly from the header pipe • Smooth internal transition • Lower turbulence and improved flow characteristics • Stronger and more consistent structure

Conclusion

Pull-Out Forming Technology combines hydraulic performance, structural integrity, and manufacturing consistency into a single solution. For modern booster pump systems where efficiency, reliability, and long-term operating cost are critical, it provides a significant advantage over conventional welded manifold construction.

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