

WHY CONSIDER STAINLESS STEEL INSTEAD OF PVC?

Evaluate whether a custom stainless-steel manifold is a better long-term solution for your commercial or industrial booster system.



ENGINEERING FIRST PVC and CPVC remain appropriate for many applications. The objective is not to replace PVC everywhere, but to evaluate when stainless steel offers a better fit.

START WITH THE APPLICATION — NOT THE MATERIAL

PVC and CPVC manifolds are economical, lightweight and easy to fabricate. For many booster systems, they remain an appropriate solution. As commercial and industrial packages become more demanding, stainless steel may be worth evaluating for durability, structural rigidity, appearance and long-term OEM value.

PVC / CPVC MAY BE SUITABLE ✓ Residential booster packages ✓ Lower-pressure systems ✓ Indoor water applications ✓ Cost-sensitive projects ✓ Corrosion-sensitive water systems		STAINLESS STEEL MAY BE WORTH EVALUATING ✓ Higher mechanical strength ✓ Improved impact resistance ✓ Better temperature capability ✓ Professional premium appearance ✓ Long-term commercial durability ✓ Large-diameter manifolds ✓ Customized manifold geometry ✓ OEM branding opportunities
RIGHT MATERIAL FOR THE RIGHT APPLICATION Select based on real operating conditions and project goals.	BETTER ENGINEERING BETTER OUTCOMES The right decision improves performance, manufacturability and value.	BUILT FOR OEM SUCCESS Engineering support to help you deliver reliable, high-quality booster systems.

SIDE-BY-SIDE ENGINEERING COMPARISON

A quick screening view for OEM engineers. Final material selection should always follow the actual operating environment, pressure, temperature, code requirements and project specifications.

CONSIDERATION	PVC / CPVC	STAINLESS STEEL
Corrosion resistance	Excellent	Excellent
Mechanical strength	Moderate	High
Temperature capability	Limited / grade-dependent	Higher / grade-dependent
Large-diameter fabrication	Application-dependent	Highly flexible
Structural rigidity	Moderate	High
Premium commercial appearance	Moderate	Excellent
Custom fabrication	Possible, but geometry-dependent	Excellent
Long-term industrial applications	Depends on conditions	Excellent when properly specified

NOT
“STAINLESS IS
ALWAYS BETTER”

THE BETTER QUESTION

Which material best supports the pressure, temperature, geometry, environment, production method and market position of this booster package?

WHY OEMS CHANGE

For many manufacturers, the decision is not driven by material price alone. The change often reflects the product they want to build, the manufacturing process they want to simplify and the market position they want to achieve.

01	02	03	04	05
Cleaner systems	Higher perceived product quality	Stronger commercial positioning	More flexible engineering	Longer product lifecycle

WHEN STAINLESS STEEL DESERVES A CLOSER LOOK

The following conditions do not automatically require stainless steel, but they are common reasons OEM engineers evaluate it during a new booster-package design or redesign.

01 HIGHER MECHANICAL DEMANDS When branch loads, transport handling, vibration or installation conditions call for greater structural rigidity.	02 LARGE OR CUSTOM MANIFOLD GEOMETRY When header diameter, branch spacing, end connections or equipment layout make standard plastic fabrication less attractive.
03 TEMPERATURE OR ENVIRONMENTAL LIMITS When operating temperature, ambient conditions or project specifications narrow the acceptable material range.	04 PREMIUM OEM PRODUCT POSITIONING When the booster package is intended to present a more durable, engineered and high-value commercial appearance.
05 REPEAT OEM PRODUCTION When a manufacturer wants repeatable geometry, controlled drawings and a consistent manifold supply program.	06 REDUCING INTERNAL FABRICATION WORK When outsourcing a finished custom manifold can simplify welding, fitting, alignment and production steps inside the OEM plant.

WHAT WE REVIEW BEFORE RECOMMENDING A MATERIAL

Operating pressure	Test pressure	Water temperature	Header diameter
Branch diameter	Branch spacing	Connection standard	Support arrangement

A SIMPLE NEXT STEP

WOULD STAINLESS STEEL BENEFIT YOUR NEXT BOOSTER PACKAGE?

Upload a drawing or simply send us a photo of your current booster system. Our engineering team can review whether a custom stainless-steel manifold is technically suitable for the application.

No obligation. No catalogue selection required.

SEND US

→ A DRAWING

→ A PHOTO

→ A CURRENT LAYOUT

ENGINEERING REVIEW