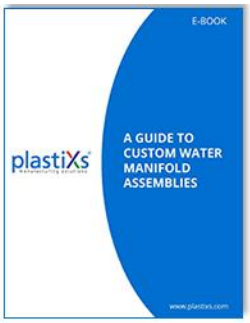
# Your Guide to Custom Water Manifold Assemblies

*Water manifolds are well known for helping maintain the optimal temperature of injection molding and other manufacturing equipment, but many are unfamiliar with layout and assembly options. Here's what you need to know about custom manifold assemblies.*

Water manifolds cool injection molds as well as semiconductor, x-ray, MRI, servers, welding, furnaces, lasers, and other equipment by distributing fluids where needed.

While common throughout many industries, there are many variables that impact the efficacy and function of your manifold. This guide covers the most common challenges and how to overcome them with customization.




## Overcoming Common Manifold Challenges

The layout and assembly of prefabricated fluid distribution systems come with numerous manifold issues that are covered by the guide:

- System design
- Material selection
- Manifold size
- Connection type
- Circuit isolation / regulation
- Fluid monitoring
- Manifold layout

## Supply Chain

The next challenge is sourcing parts and scheduling their assembly. The custom manifold guide covers best practices relating to lead times, managing your company's resources and tooling, sealants, dry fit-ups, and pressure testing.

## Use an Experienced Custom Manifold Partner

Designing and assembling a custom manifold can be a laborious and complex undertaking. Outsourcing to an experienced and reliable partner can alleviate the stressors of in-house implementation.

A trusted partner will guide you through the process of determining your needs and establishing the correct design parameters, such as:

- Inlet and outlet sizes
- Temperature and pressure specifications
- Material selection
- Sensor requirements
- Connections based on flow and hardware required
- System fluid compatibility

Plastixs brings decades of experience designing, fabricating and assembling custom manifolds for clients across many industries. Our team regularly partners with industrial OEMs with turnkey custom

manifold services that include whatever combination of the following you need:

- Pressure and flow consultation during equipment design
- Material and component selection
- Parts sourcing
- Fabrication and assembly
- Prototyping and testing
- Shipping

To learn more about custom manifold assemblies, download our comprehensive guide or contact us to learn more.

Download the Plastixs custom manifold guide here