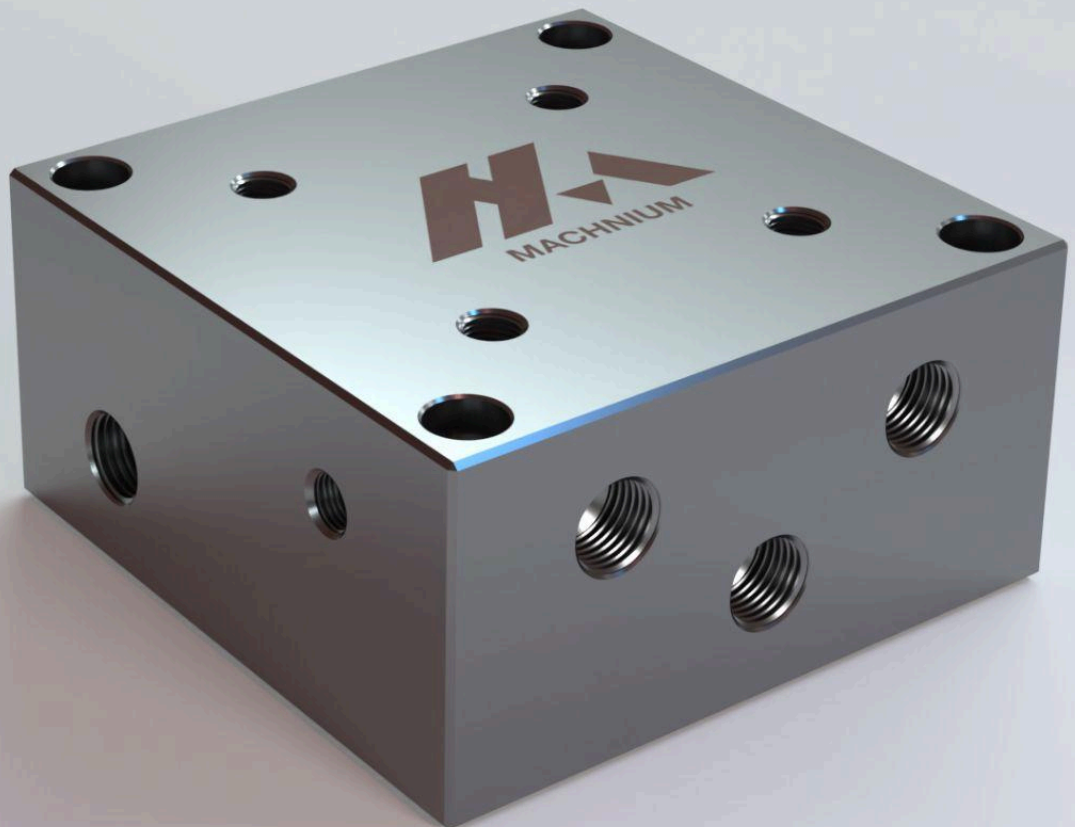


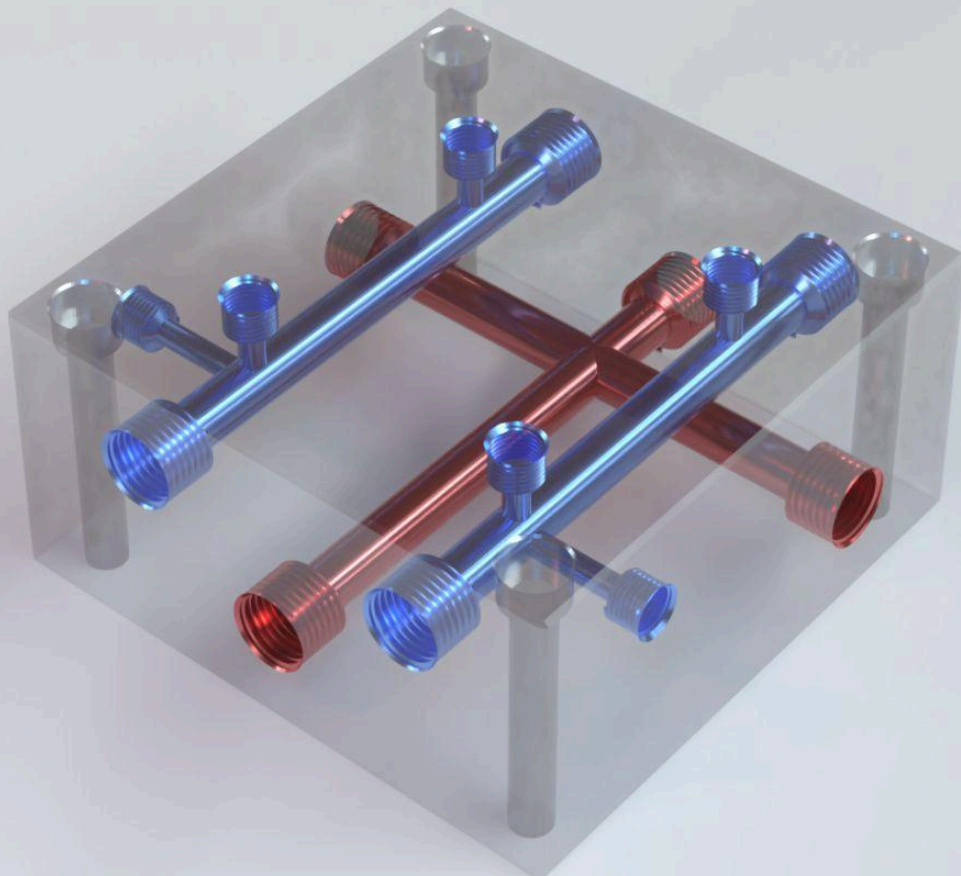
CNG Time-Fill/Fast-Fill Manifold

Technical Reference Manual 1200/100/Global



Why Choose Our Time-Fill/Fast-Fill Manifold?

Engineered for high-capacity natural gas infrastructure, the Machnium CNG Time-Fill/Fast-Fill Manifold delivers robust performance, operational flexibility, and long-term durability for commercial fleet fueling depots. Built from premium corrosion-resistant materials to withstand demanding operating environments, this versatile manifold seamlessly supports both overnight time-fill operations and rapid fast-fill demands. Featuring precision-machined flow paths and modular expansion ports, it ensures optimal gas distribution, minimizes pressure drop, and maximizes overall system efficiency. Fully customizable to meet your specific pressure ratings, port configurations, and layout requirements, Machnium provides the tailored reliability needed to scale existing terminals or configure new return-to-base fueling stations.





Key Features

Fully Customizable Architecture

Tailored precisely to your exact pressure ratings, port configurations, and spatial layout requirements.

Precision-Machined Flow Paths

Expertly designed internal channels minimize pressure drop to maximize overall system efficiency and uniform gas distribution.

Modular Expansion Ports

Built for effortless scalability, enabling easy system growth as your terminal or fleet expands.

Corrosion-Resistant Construction

Manufactured from premium, heavy-duty materials to ensure long-term reliability in demanding outdoor and industrial environments.

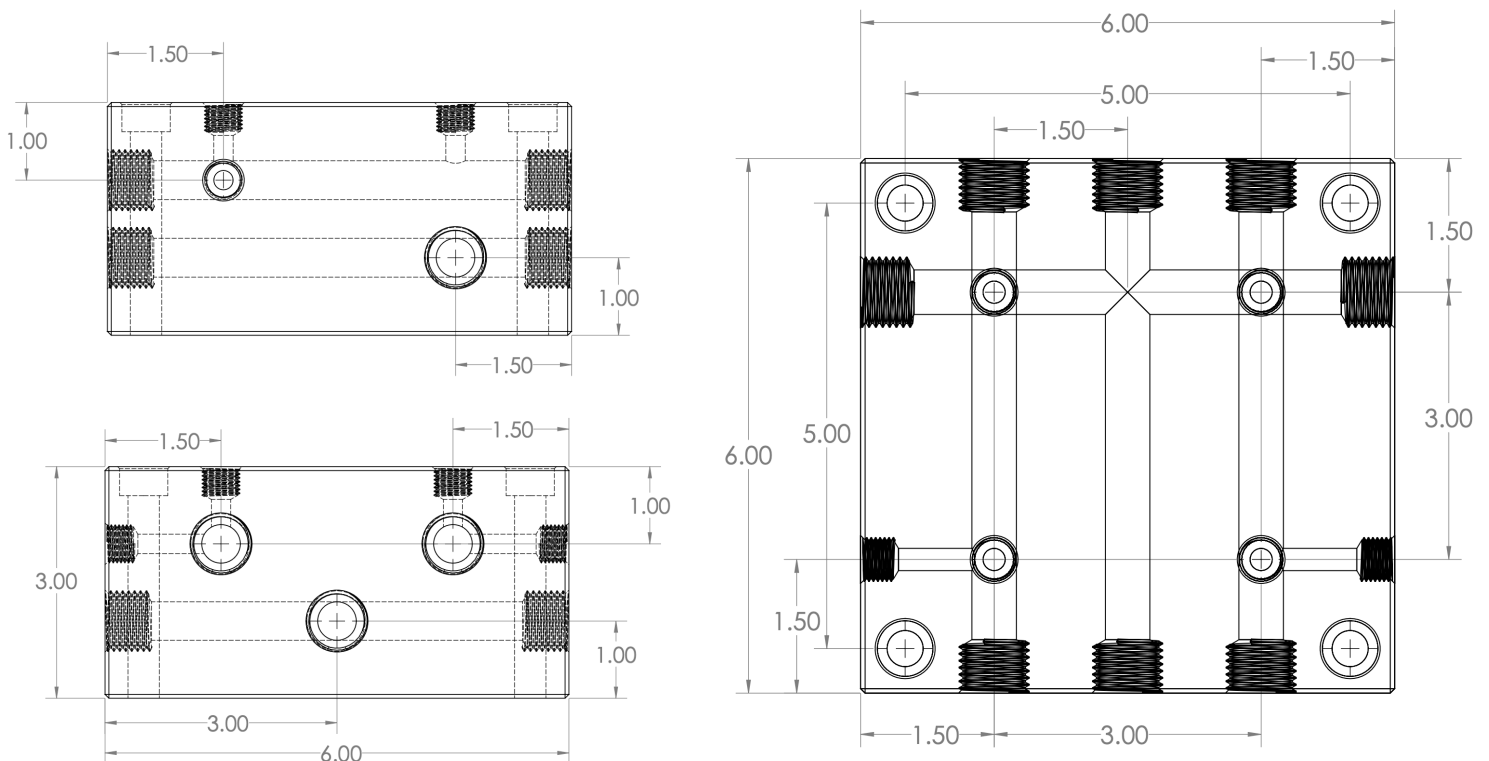
Rigorous Pressure Testing

Every manifold undergoes strict proof and leak testing to guarantee structural integrity and bubble-tight performance under demanding cyclic loads.



Technical Specifications

Technical Specification	Details
Port Connection	1/4", 1/2", 3/4", 1" (custom sizes available)
Port Connection Types	NPT, SAE J1926 (ORB)
Material	316/316L Stainless Steel (Standard) or High-Yield Carbon Steel / Anodized Aluminum options
Thread Type	SAE, NPT, BSPP (other types available upon request)
Maximum Operating Temperature	-40°F (-40°C) to 372°F (188.8°C)
Working Pressure	5500 psig, 380 bar
Flow Coefficient (C_v)	Engineered high-flow design optimized per port size



Customization Options

We offer tailored solutions based on:

Specific pressure and flow requirements

Unique inlet/outlet size preferences

Material selection for corrosive environments

Specialized filtration efficiency levels

At Machnium, we provide end-to-end, tailor-made solutions designed to meet the unique challenges of various industries. From initial concept to final manufacturing, we work closely with our clients to design, develop, and implement custom-engineered solutions that address their specific requirements. We handle everything from design, prototyping, and rigorous testing to full-scale production and ongoing support, ensuring that each solution meets the highest industry standards. Our expertise ensures seamless integration with existing systems while optimizing performance, durability, and serviceability.

Whether it's enhancing safety, improving efficiency, or meeting strict operational demands, our comprehensive approach delivers innovative, high-performance solutions built for the most demanding applications.

For detailed technical data and customization options, please contact us.

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