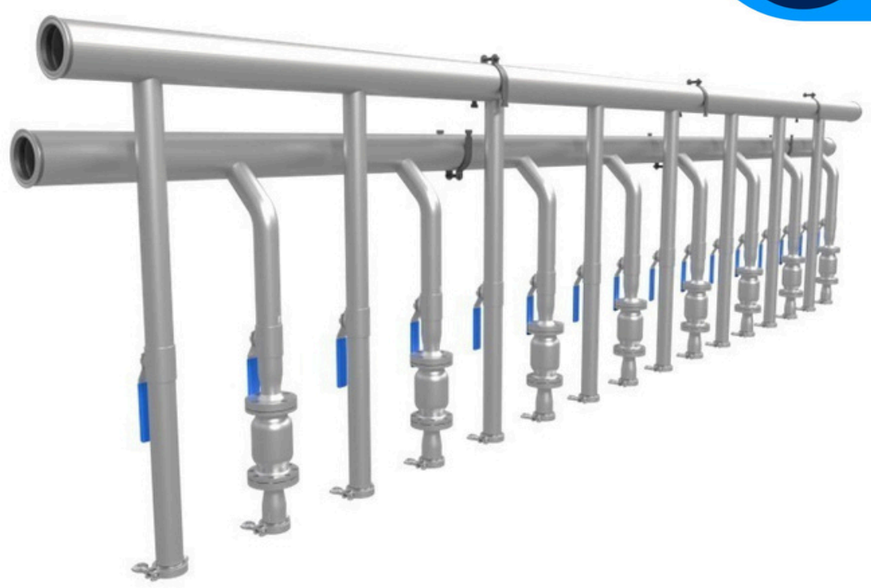
Liquid Cooling

Tate®

APAC REGION

Manifolds



Tate Liquid Cooling Manifolds

Liquid cooling manifolds are engineered components that are connected from a Coolant Distribution Unit (CDU) to multiple server inlets and outlets within high-density IT racks.

Designed for precision and scalability, they support direct-to-chip cooling in AI-ready data centres. By managing liquid flow efficiently, manifolds enable better cooling performance, improved system reliability, and support for higher rack power densities.

Our manifolds are compatible with both liquid-to-liquid and direct liquid-to-chip cooling technologies. Tate do not dictate the cooling method. That decision is left to the client, based on their specific needs and infrastructure.

Technical Specifications

Material:	Austenitic Stainless Steel (Grade 304L or 316L)
Pipe diameter:	DN15 to 200 (NPS ½" to 8")
Isolation valve:	Included
Flow control valve:	Included
Non return valve:	Included
Motorised control valve:	Included
Relief Valves:	Self-acting air purge valves

Specifications

- Integrates with Tate HAC and Ceiling systems.
- High pressured tested, cleaned and flushed.
- Compatible with a wide range of cooling liquids.
- Supports extensive range of operating pressures.
- Welding standard to ASME B31.3 and AWS.
- Pressure tested up to 15 Bars.

Tate manifolds are customisable and manufactured as per project specifications.

Talk to Tate's technical team for design and technical drawing specific to your requirements.

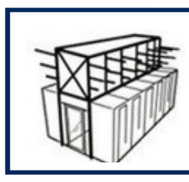
Identification and Traceibility

Fully traceable from supply to site, giving you access to material certificates and inspection reports.

Testing

High Pressure tested in a factory controlled setting prior to shipping, ensuring a leak free performance.

Mounting



Internal unistrut cantilever arms with channell nuts allow for adaptable manifold placement on Tate HACS.

Pickling

Chemically pickled to remove weld scale, heat tint, oxides, and surface contaminants generated during fabrication, restoring the corrosion resistance of the stainless steel and providing a clean and uniform finish.

Intensive Flushing (optional)

Flushed and cleaned by circulating water through all pipework using a temporary filtration unit to remove construction debris, achieving a maximum particle size of 25 µm (microns).

Passivation (optional)

Chemically passivated to promote the formation of a protective layer on all surfaces, reducing the risk of corrosion, improving long-term system integrity, and providing a smooth, homogeneous surface.

Contact our technical team for support: **T:** (02) 9612 2300 **E:** info.apac@tateglobal.com

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tate-liquid-cooling-manifolds-data-sheet-en-au-v2 | R 05/2026

Part of the Konnect by Tate range

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