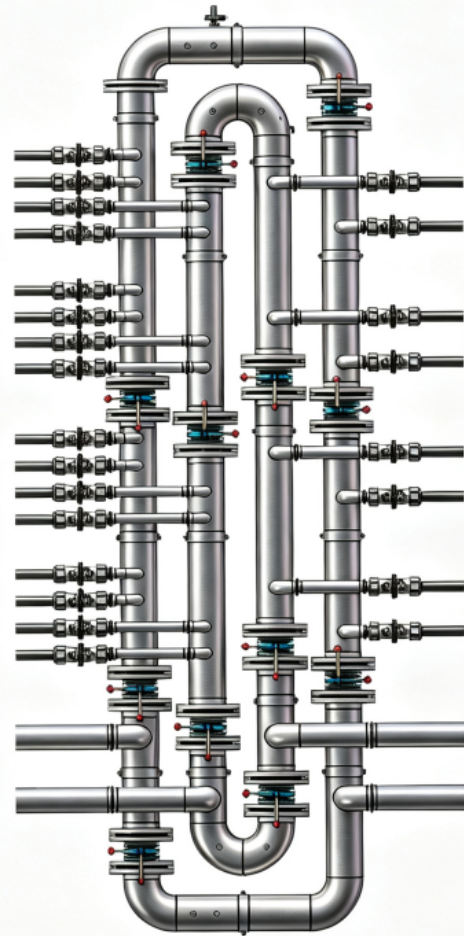


DLP SERIES

SECONDARY PIPING

Factory-prefabricated stainless-steel distribution between the CDU and liquid-cooled rack rows.



CLEAN FABRICATION / REPEATABLE INSTALLATION

JR Cooling Technologies LLC
2733 McCone Ave., Hayward, CA 94545, USA
Sales@jrcoolingtech.com

SYSTEM OVERVIEW

The fluid network between CDU and rack

Secondary piping connects the Coolant Distribution Unit (CDU) to liquid-cooled server racks. Coolant travels from the CDU through the supply network, absorbs heat at the rack, and returns through the same engineered loop for temperature control and recirculation.

Sealing integrity, internal cleanliness, structural strength, corrosion resistance, rack layout, and CDU location directly affect system reliability. DLP assemblies use configurable factory-prefabricated modules to reduce field welding and improve repeatability.

200-20,000 kW

SYSTEM LOAD RANGE

DN50-DN500

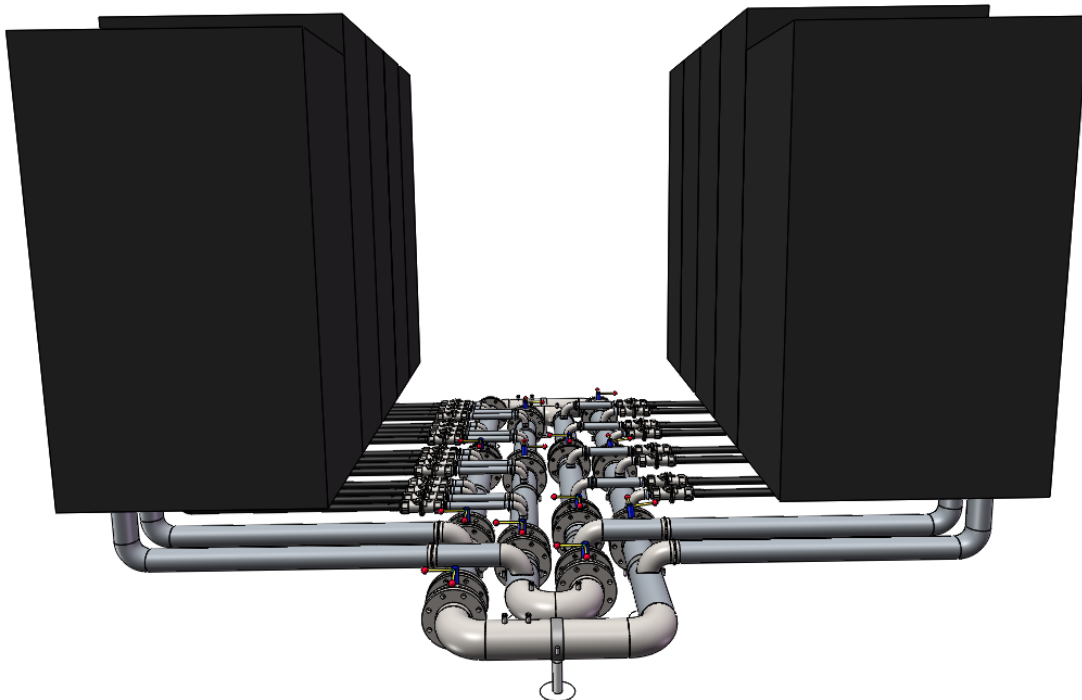
MAIN PIPE RANGE

8 / 10 bar

DESIGN PRESSURE OPTIONS

SUS304 / 316

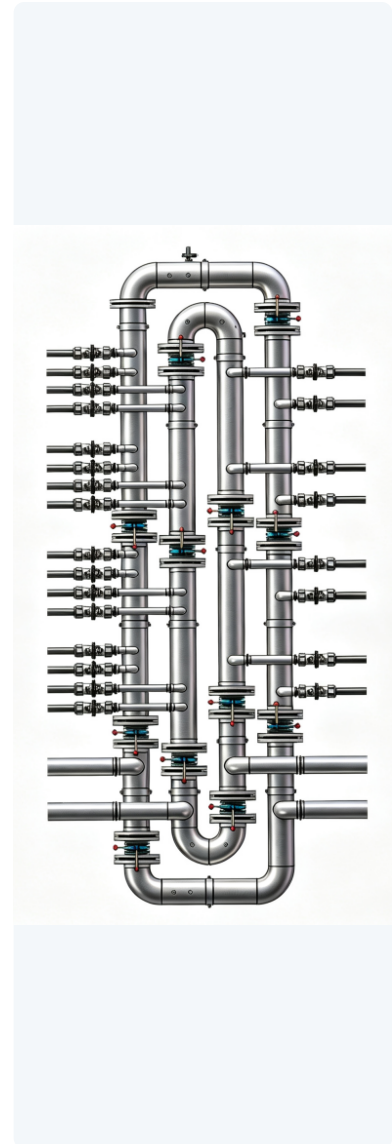
MATERIAL OPTIONS



ENGINEERING BENEFITS

Controlled fabrication for field deployment

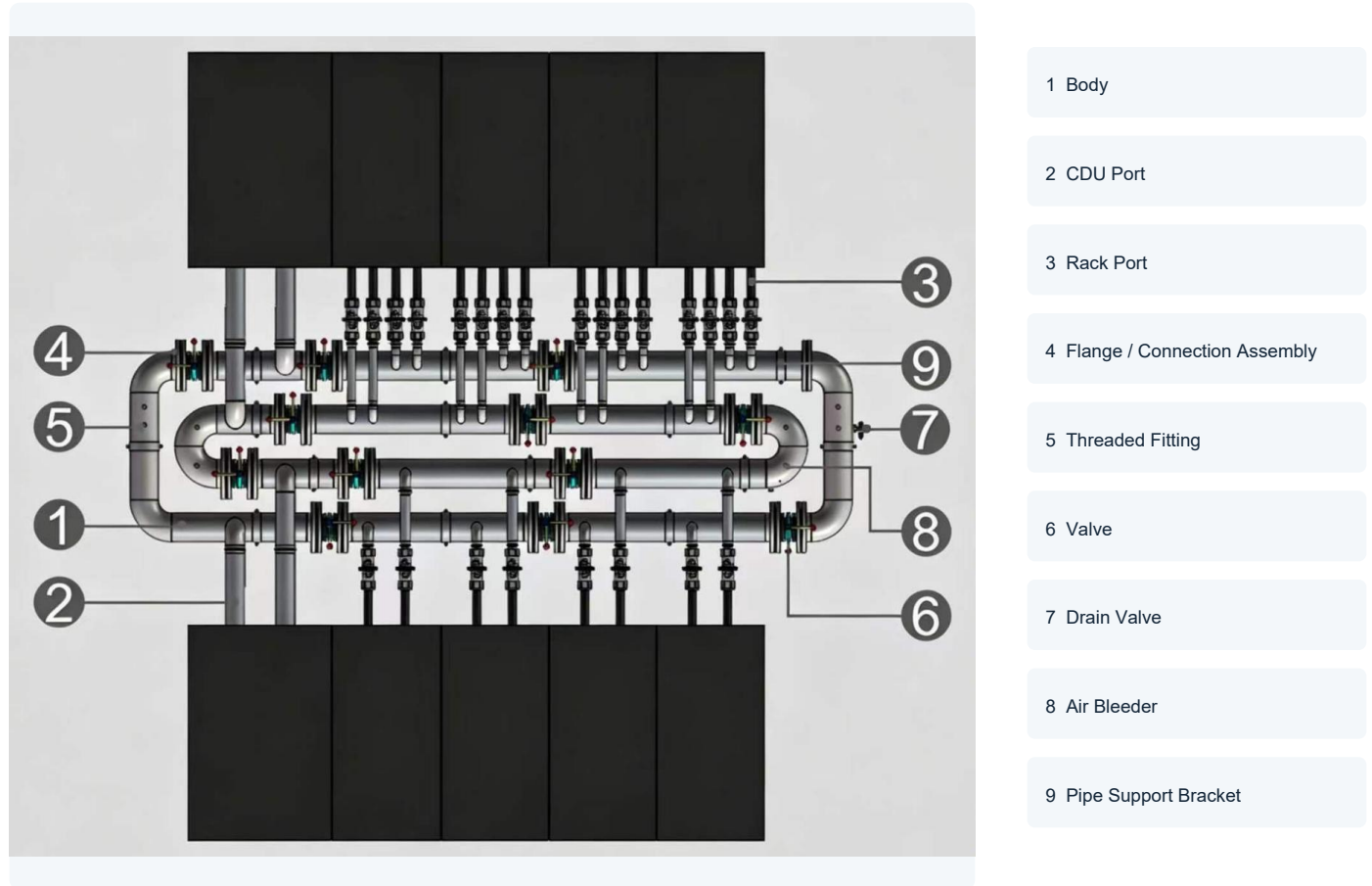
- Internal cleanliness - Shielded welding, pickling, passivation, and ultrasonic cleaning help protect cold plates and connections.
- Industrial reliability - Stainless construction, weld inspection, and hydrostatic or pneumatic tests support sealing integrity.
- Configurable architecture - Pipe diameter, pressure class, valves, sensors, air vents, drains, and connection routing are selectable.
- Rapid site installation - Factory-built sections, flanges or ferrules, and adjustable supports reduce field fabrication.
- Service support - Air bleeding and drain points are coordinated for filling, venting, and maintenance access.



MODULAR DESIGN

Scalable row-level architecture

The DLP secondary piping system is configured around the data hall row plan. Repeatable modular sections can be extended to match rack count while supporting transport, installation, inspection, and controlled factory production.



CONFIGURATION MATRIX

Primary selection parameters

NO.	COMPONENT	CONFIGURABLE OPTIONS
1	Body	OD up to 500 mm; NPS / DN; SUS304 or SUS316; 8 or 10 bar; top or bottom routing
2	CDU Port	Industrial flange, TriClamp ferrule, or grooved coupling; quantity as required
3	Rack Port	TriClamp ferrule 50.5 / 64 / 77.5 mm or barb adapter 1 / 1.5 / 2 in.
4	Flange / Connection Assembly	Welded flange, TriClamp ferrule, or grooved coupling
5	Threaded Fitting	G thread, UNF thread, or barb fitting in project-selected sizes
6	Valve	Double-flange, wafer, or three-piece butterfly valve; SUS304 / SUS316 / cast iron
7	Drain Valve	Threaded or barb connection selected for maintenance access
8	Air Bleeder	Two to four per loop set; optional silicone or PU diversion tube
9	Pipe Support Bracket	Heavy-duty single-point clamp or industrial U-bolt structure

Select final configurations according to site architecture, rack count, coolant, pressure class, installation route, and service requirements.

SELECTION BASIS

Rack count, route, coolant, pressure, and service access.

INTERFACE CONTROL

Confirm port type, size, quantity, and mating components.

DELIVERY RECORD

Final drawings and test records follow the approved configuration.