



ENGINEERED LIQUID COOLING FLOW PATHS

Fluid Handling Solutions for Data Centers,
Supercomputing & Electronics.



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PARKER DIVISION LOW PRESSURE CONNECTORS EUROPE

Solutions Provider of Liquid Cooling Solutions in Electronic Environments

For more than 60 years, we strive to design, manufacture and customise safe and reliable quick connection solutions, distributed anywhere across the globe.

OUR CAPABILITIES:

- **Hyperscale manufacturing** meeting operational excellence and highest quality standards
- **Clean, contamination-free components** delivered by automated manufacturing processes
- **100% European supply chain** to support sourcing stability and supply continuity
- **Co-developpement partnership** to help tailor solutions to specific application requirements
- **Customer engineering intimacy** to support faster development, integration, and problem-solving
- **Worldwide industrial footprint** to provide global support, scalability, and long-term partnership

OUR DATA CENTER TEAM:

Consult Parker LPCE expert team experts for your projects.



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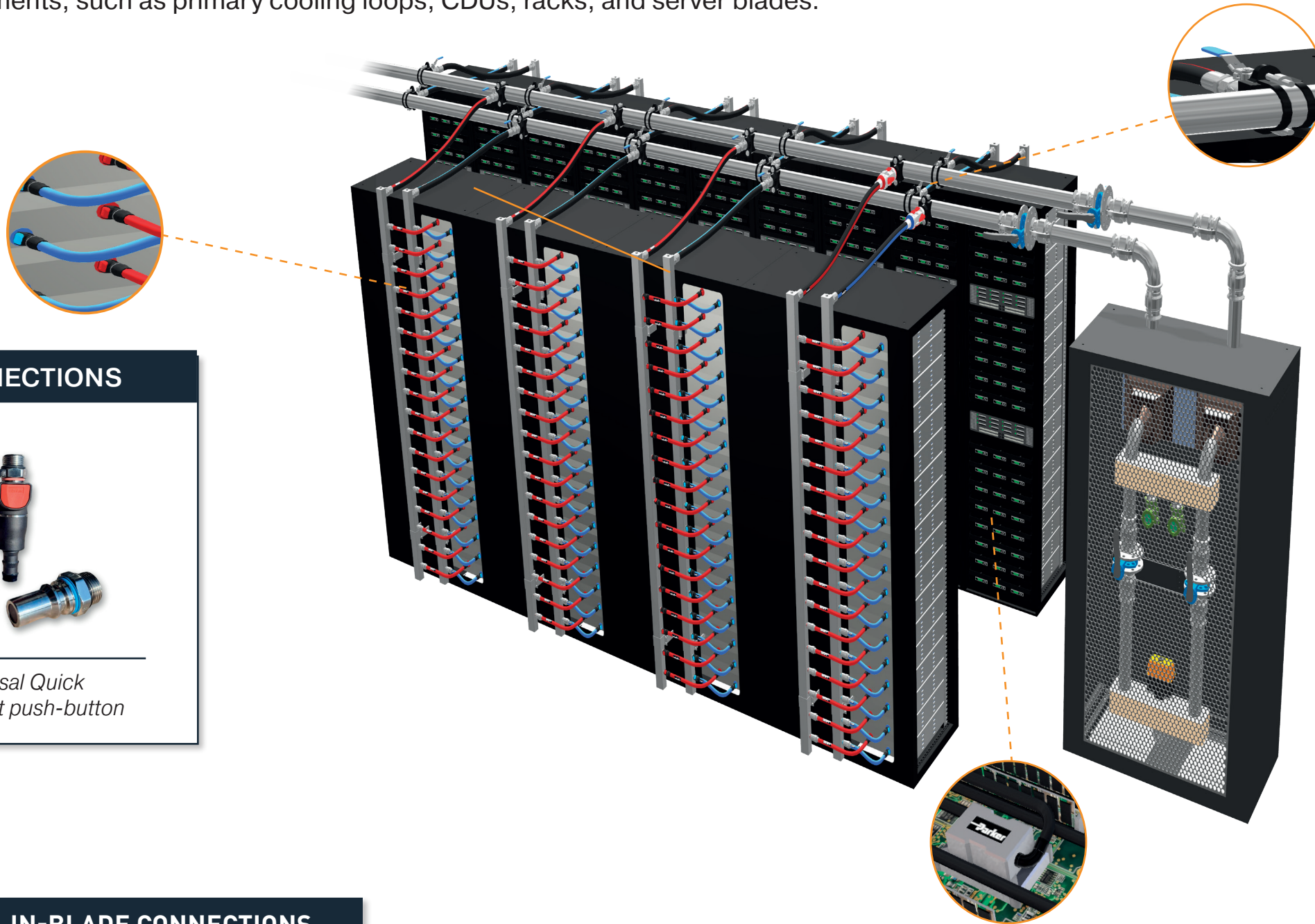


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LIQUID COOLING APPLICATIONS AT A GLANCE

Our advanced liquid cooling solutions deliver reliable performance and maximize efficiency across critical data center segments, such as primary cooling loops, CDUs, racks, and server blades.



RACK CONNECTIONS



Universal Quick Disconnect push-button

IN-BLADE CONNECTIONS



LIQUIfit® Push-In Fittings



Mini Quick Disconnects



Tubing



Carstick® Cartridge



Compact Manifold

INFRASTRUCTURE (In-house)

Modular Piping for primary cooling loops



Stainless Steel Piping



Brackets



Valves



Clamps

PARKER FLUID COOLING SOLUTIONS FOR DATA CENTERS

Fluid handling solutions at every stage of your cooling process.

GLOBAL RANGE TO OFFER THE BEST SOLUTION

Extensive range of piping, couplings, push-in fittings, tubing and valves suitable for liquid handling from the cooling unit to the cold plates.

FAST & SCALABLE

- + Connection without tools
- + No welding, crimping, gluing
- + Automatic sealing and gripping
- + Easy handling
- + Easy integration into automated lines

COMPACT & FLEXIBLE

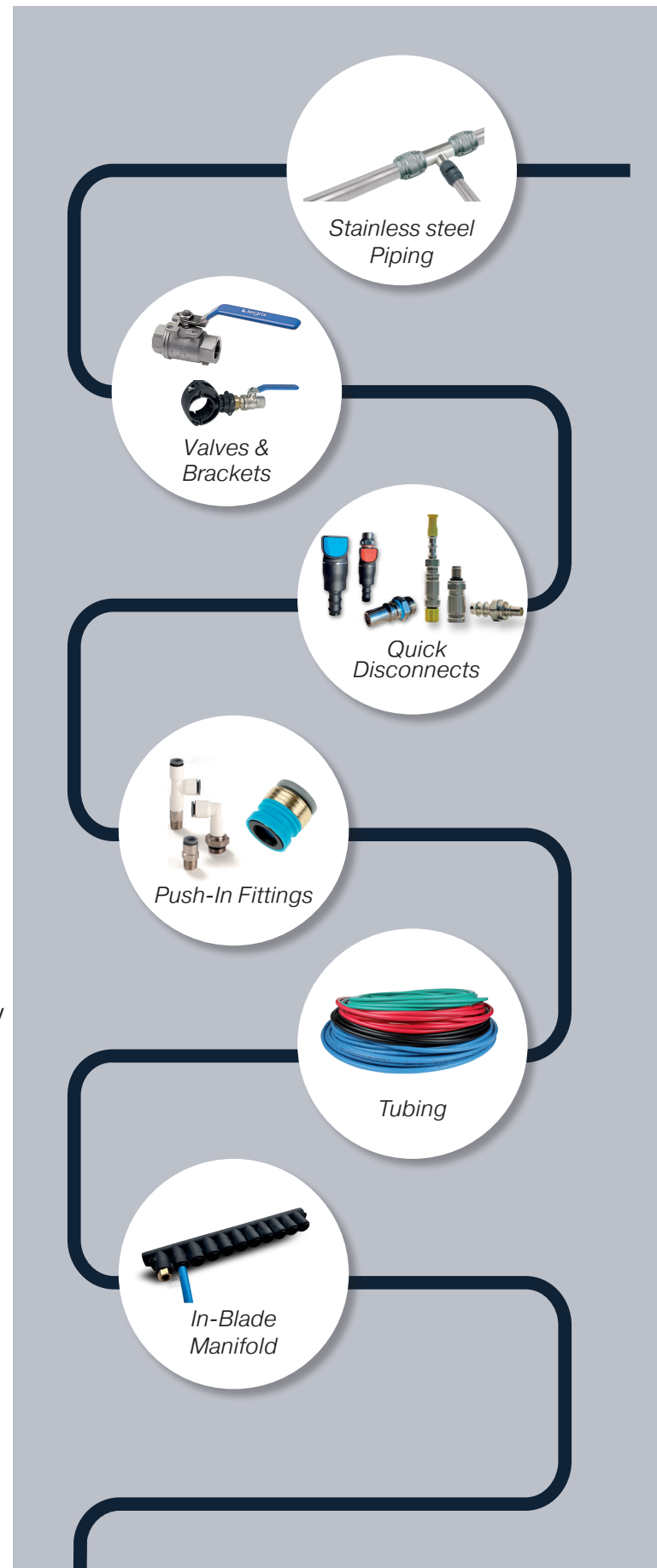
- + Numerous configurations offering highly flexible installation solutions
- + Compact connections for space savings

SAFE & RESISTANT

- + Robust test protocols are performed: ageing, endurance and mechanical tests such as vibration, shock, helium or burst pressure
- + Push-in fittings are 100% leak-tested and individually dated in production
- + Safety locking function

SMART & EFFICIENT

- + Unrestricted flow path design for full flow and minimum pressure drop
- + Double shut-off and flat sealing coupling system



Stainless steel Piping



Valves & Brackets



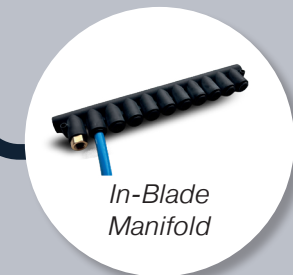
Quick Disconnects



Push-In Fittings



Tubing



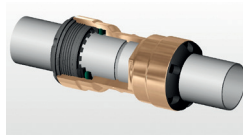
In-Blade Manifold

MODULAR PIPING SOLUTIONS

For main line connections.

Transair® is the ideal solution for industrial fluid networks, combining adaptability, quick installation, high performance and durability.

Because users need versatile, reliable and safe solutions, Transair® has developed different technologies to provide the best compromise between safety, efficiency and adaptability.

			
Diameters	Ø22 mm to Ø28 mm	Ø42 mm to Ø60 mm	Ø76 mm to Ø200 mm
Connector Materials	Stainless Steel Brass	Technical Polymer	Technical Polymer Stainless Steel
Technology	Gripping Ring Instant Connection 	Double Clamp Ring Quick-Fit Connection 	Lug & Clamp Quick-Fit Connection 

Transair® innovative technology takes into account the specific requirements of each diameter and provides the user with an optimum safety coefficient and easy connection.

Working Conditions



Working pressure:
Up to 10 bar



Working temperature:
Our global piping system components are suitable for a working temperature range of -20°C to +90°C.

All performance data is available in our interactive catalogue at www.parker.com



QUICK COUPLING SOLUTIONS

For modular and on-blade systems.

Our couplers stand out for their high level of compatibility with the broadest range of liquids (water or heat-exchange oils) and the application environment. Likewise, their resistance to mechanical stress is crucial.

One of the most important requirements in the cooling of electronic systems is the avoidance of leaks, as this is the only way to guarantee fault-free function of the installation.

Dry-Break System Quick Disconnects



Dry-break coupling system with single-hand operation

Compact non-spill

Series	200KL
DN (mm)	3-4-6-9-12
Available Materials	Stainless Steel AISI 316L Nickel-Plated Brass

Dry break – extremely low remaining dead volume. Absolutely no air pockets when coupling and only a barely noticeable film of the medium being channeled on the valve bodies when uncoupling.

Working Conditions



Working pressure:

Up to 15 bar
Maximum static working pressure with design factor of 4 to 1.



Working temperature:

Our global piping, coupling and fitting solution is commonly designed for operation from -20°C to +90°C.

Possibility to offer couplers that perform across higher on higher ranges: -40°C up to +200°C



The responsive flow charts are available in our catalogue at www.parker.com

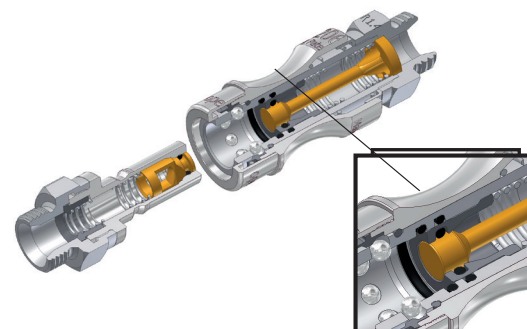
Interchangeability:

On demand, our couplings can be adapted to be compatible with other brands' profiles.

Non-Spill Flat Face Design

On the coupling and plug, our flat sealing coupling systems have valves that build up no dead-space volume. As such, when the quick coupling is disconnected, no drops of the medium being channeled are able to escape.

This variant is especially suitable for transporting aggressive media and for use in sensitive environments.



PUSH-BUTTON UQD

Universal Quick Disconnect for Liquid Cooling Applications.

Product Features:

Parker push-button Universal Quick Disconnect (UQD) is a disconnect solution for liquid cooling systems in data centers and supercomputers. It meets OCP specifications while tackling IT power densification challenges.

The UQD design allows high mechanical performance and compliance with flammability regulations.

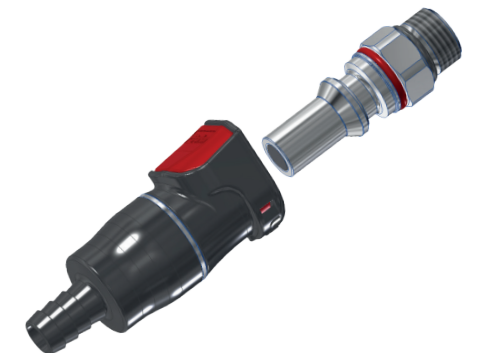
The innovative combination of high-performance polymer and metal offers a superior flow rate.

Product Benefits:

- Ease of Use**
The ergonomic, color-coded push-button simplifies the assembly and disconnection of liquid cooling circuits, minimizing installation errors and ensuring ease of use, even in tight spaces like data centers
- Non-Spill Technology**
Designed to effectively prevent any fluid loss and provide optimum protection of electrical components
- High Mechanical Performances**
Robust blend of high-performance polymer and corrosion-resistant stainless steel to ensure durability and reliability in demanding liquid cooling environments
- UL94 V0 Approved**
The innovative combination of high-performance polymer and metal complies with flammability regulations
- Customizable Back Body Available**
Stainless Steel, 90°, thread...



Universal Quick Disconnect Push-Button



Working Conditions



Working pressure: 7 bar



Operating temperature: 0°C to +70°C

Non-operating temperature: -40°C to +70°C

Connection/disconnection durability: >5000 cycles

Compatible with Parker 807 and 801TM Push-Lok EPDM hose .



PUSH-IN FITTING TECHNOLOGY SOLUTIONS

For compact in-blade connections.

Parker LPCE fluidic fittings and tubing have been engineered to outperform, working together with a system approach that offers reliable, leak-free connections, streamlines development and speeds manufacturing.

Parker Push-in Fittings are 100% leak-tested and individually dated in production.

They are designed to ensure full flow and minimize pressure drop.

Working Conditions

- 

Working pressure: up to 16 bar

The tubing performance data is available in our interactive catalogue at www.parker.com
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Working temperature: -20°C to +90°C

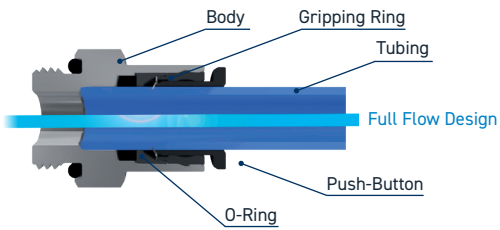
Performance can vary depending on the o-ring material

Push-in Technology



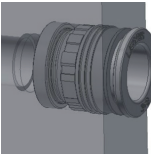
Tubing: attachment and sealing are carried out on the external diameter of the calibrated tubing.

The pass diameter is therefore optimal.



Carstick® Tubing & Hose Connection

Different types of tubes and hoses can be connected to our Carstick® cartridge:



+





Copper Tubing



Stainless Steel Tubing



Polymer Tubing



Parker 629



Parker 807 or 801TM

ASSOCIATED PRODUCTS

A complete range of compact and ready-to-use valves from DN8 to DN50.

Manual Ball Valves



Axial Piloted Valves

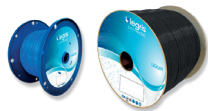


Check Valves



A wide range of flexible tubing from Ø4 to Ø22 in multiple materials and colors.

Total Versatility



High Resistance



High Flexibility



Material	Polyethylene	Fluoropolymer	Anti-Spark Polyurethane
Outer Diameter	Ø4 to Ø22 mm	Ø4 to Ø22 mm	Ø4 to Ø14 mm
Inner Diameter	DN2 to DN18 mm	DN2 to DN18 mm	DN2,5 to DN9,5 mm

In the case of dynamic applications, such as tubing movements, mechanical strains, or vibrations, we strongly recommend using additional tube support.

