

Stucchi®

# Solutions for Liquid Cooling applications

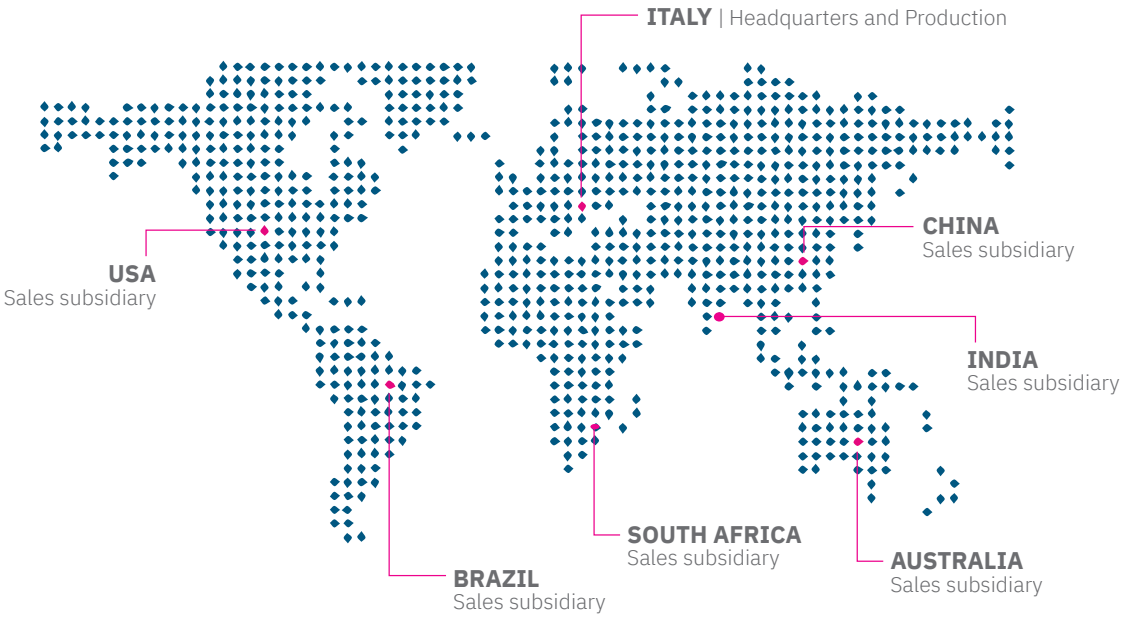
stucchigroup.com

# The Company

Stucchi was founded in 1960 in Italy and during these dacades has gained a vast experience in the production of quick couplings for fluid transfer.

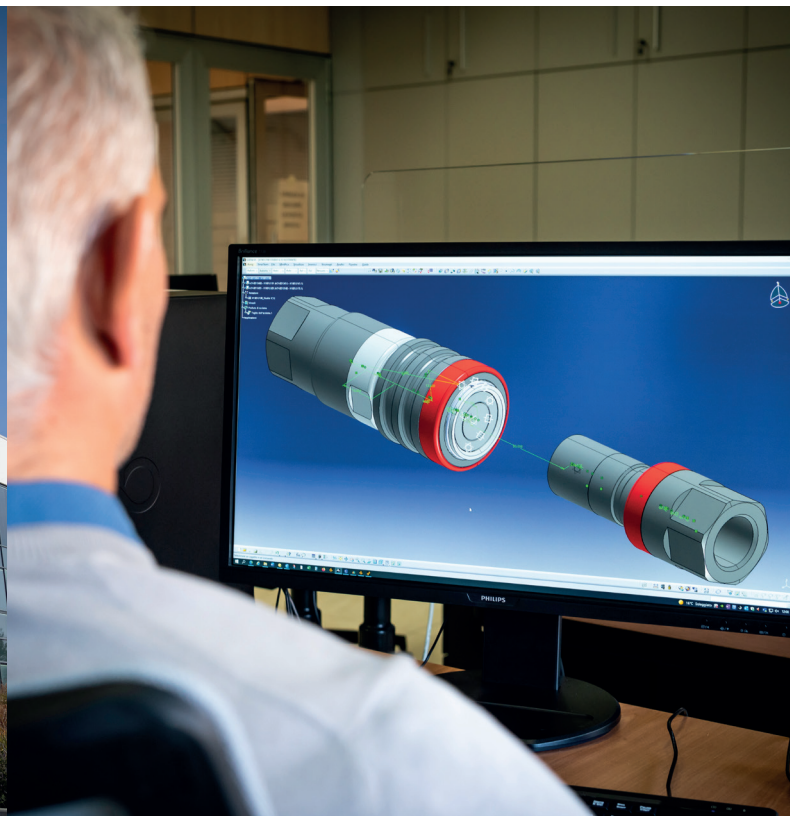
The vision that drives us to the future is to be recognized by our customers as their supplier of choice for fluid power products and solutions that are easy to use, safe, long lasting, environmentally friendly and that help in saving energy.

# Stucchi in the world









# Why Stucchi

· Extensive knowledge across different thermal management fields
· Strong global network and presence
· Collaborative engineering tailored to customer needs
· In-house expertise in design, production and testing

# Why Stucchi products

· Lightweight and compact design
· Durability under mechanical stress
· Ensuring no fluid leakage in cooling electronic systems
· Flat face design with no-spill valve
· Minimal pressure drop design
· Flexibility to provide different port configurations
· Our solutions are designed to offer superior compatibility with a wide range of fluids
· Different safety locking options
· Valve for pressure release option available
· Color coding options






# The Stucchi proposition

Quick release couplings play a key role, allowing secure and leak-free connections in hydraulic circuits. Stucchi, an expert in this field, offers customized solutions that meet the specific needs of each application, minimizing leaks and contamination while ensuring efficiency and sustainability across various industries, from industrial cooling to automotive.



## IC Series

Aluminum quick release coupling specifically designed for Industrial Cooling with flat face valve for minimal spillage, color coding for easy identification, modular construction for flexibility and internal valve design to reduce pressure drop.



## AX/FL Series

Stainless steel quick release coupling suitable for water and refrigerant liquids with flat face valve for minimal spillage, high resistance against extrusion.



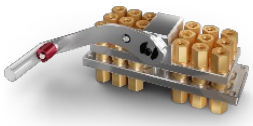
## FIRG-Q Series

Quick release coupling with QPQ tratment suitable for water and refrigerant liquids with flat face valve for minimal spillage, high resistance against extrusion.



## GRLW10+FAQ13

The GRWL10 plate combines light weight and easy handling with safe, multiple connections, ensuring no fluid leakage and maximum efficiency.



## GRE Series

Brass multicoupling useful to connect multiple lines (up to 18) with minimal fluid spillage and operating pressure up to 10 bar.



## IRBX Series

Poppet coupling with international standard ISO 7241-B, made of stainless steel and brass with excellent corrosion resistance.



## IRBO Series

Poppet valve quick couplings series interchangeable with international standard ISO 7241-B, manufactured in brass and with springs and locking balls in stainless steel.

# Liquid cooling applications

Each industrial sector comes with its own specific requirements, demanding unique features and solutions that are precisely tailored to their environments and the types of media they utilize. Leveraging more than 60 years of expertise in fluid management, Stucchi stands as a trusted leader in the industry. We offer an extensive range of high-performance products meticulously designed to address the diverse liquid cooling needs of various industrial applications.

### Railways / Transportation



### Data center



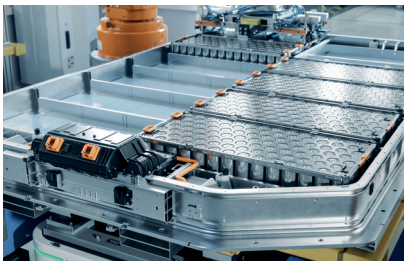
### Radar



### Broadcasting



### Electric vehicles



### Recharging stations



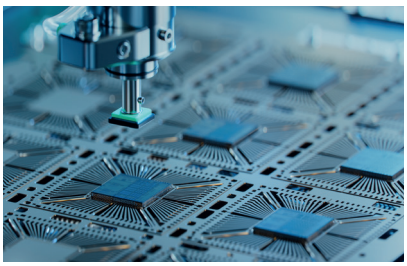
### Windmill



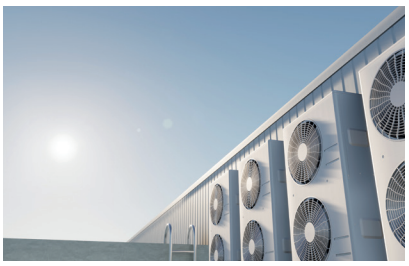
### Medical equipment



### Semiconductors



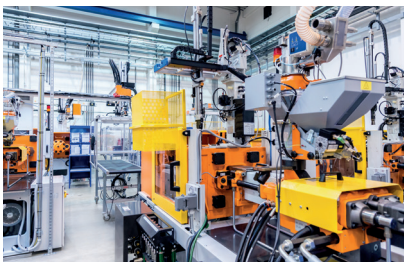
### AC portable systems



### Laser



### Molding



# Stucchi solutions for liquid cooling

Stucchi's comprehensive range of products is specifically designed to meet the diverse and evolving needs of the cooling industry.
By offering a variety of innovative solutions, high-quality materials, exceptional performance capabilities, and a wide array of sizes, Stucchi ensures that every requirement, from standard to specialized applications, is effectively addressed.

## Technical features

| | | Valving style | Available sealings | Sizes | Max. operating pressure | Color Coding | Material /Treatment |
|---|---|---|---|---|---|---|---|
| IC |  | Flat face | EPDM | 1/4", 3/8", 1/2", 5/8" (7, 9, 13, 15 mm) | up to 40 bar | ✔ | Aluminum with hard oxidation |
| AX/FL |  | Flat face | Nitrile NBR, FKM (Viton®), EPDM | 1/8", 1/4", 3/8", 1/2", 5/8", 3/4", 1", 1-1/2", 2" | up to 350 bar | — | Stainless steel |
| FIRG-Q |  | Flat face | Nitrile NBR, FKM (Viton®), EPDM, Kalrez® | 1/4", 3/8", 1/2", 5/8", 3/4", 1", 1-1/2", 2" | up to 300 bar | — | Carbon steel+QPQ, Stainless steel |
| GRLW10 +FAQ13 |  | Flat face | Nitrile NBR, FKM (Viton®), EPDM | 1/2" | up to 20 bar | not necessary | Aluminum, Carbon steel (plates), Carbon steel with QPQ, Stainless steel (couplings) |
| GRE |  | Flat face | Nitrile NBR, FKM (Viton®), EPDM | 3/8", 1/2" | up to 10 bar | not necessary | Anodized aluminum (plates), Brass (couplings) |
| IRBX |  | Poppet | Nitrile NBR, FKM (Viton®), EPDM | 1/8", 1/4", 3/8", 1/2", 3/4", 1" | up to 250 bar | — | Stainless steel, Brass |
| IRBO |  | Poppet | Nitrile NBR, FKM (Viton®), EPDM | 1/8", 1/4", 3/8", 1/2", 3/4", 1" | up to 200 bar | — | Brass |

# Different products for different uses

Stucchi has developed extensive expertise in the various fields of fluid management, establishing itself as a trusted partner thanks to its broad and versatile range of high-performance quick couplings.

These products are tailored to meet the specific demands of each application, providing reliable, efficient, and innovative solutions across multiple sectors within the liquid cooling industry.

## Applications

| | | Railways / Trasportation | Data center | Radar | Broadcasting | Electric vehicles | Recharging station | Windmill | Medical equipment | Semi conductors | AC portable systems | Laser | Molding |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IC |  | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| AX/FL |  | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| FIRG-Q |  | ✔ | — | — | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| GRLW10 +FAQ13 |  | ✔ | — | — | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| GRE |  | — | — | — | — | — | — | — | — | — | — | — | ✔ |
| IRBX |  | ✔ | — | ✔ | ✔ | ✔ | — | — | — | ✔ | ✔ | — | ✔ |
| IRBO |  | — | — | — | ✔ | ✔ | — | — | — | ✔ | ✔ | — | ✔ |

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For complete technical information see www.stucchigroup.com
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