LIQUID COOLING

CRITICAL COMPONENTS: HOSES & ACCESSORIES









TIPCO Technologies: Commitment to Quality and Safety

At TIPCO Technologies, we pride ourselves on delivering exceptional fluid conveyance and sealing solutions. Our unwavering commitment to quality and safety sets us apart in the industry.

Here's how we ensure excellence in every product and service:

- Quality Assurance: We partner with premier suppliers to source the highest quality materials, ensuring our products meet and exceed industry standards. Our rigorous quality control processes guarantee reliability and performance in every solution we provide.
- Safety First: Safety is at the core of our operations. Our team undergoes comprehensive training to stay updated on the latest safety practices and proper hose assembly techniques. We adhere to guidelines set by the Hose Safety Institute and the Association for Hose and Accessories Distribution (NAHAD), ensuring our products are safe and dependable.
- Continuous Improvement: We are committed to continuous improvement, regularly inspecting our facilities and processes to maintain the highest standards of quality and safety. Our dedication to innovation and excellence drives us to constantly enhance our products and services.

Choose TIPCO Technologies for solutions you can trust, backed by a steadfast commitment to quality and safety. Your satisfaction and safety are our top priorities.





The TIPCO E-Store has more than just online ordering.

- Shop based on your customer-specific pricing
- View live inventory across all TIPCO locations
- View spec data and item images
- View open orders
- View order history
- Create custom catalogs
- · View invoice history
- · Pay invoices online
- · Request quotes

All your Liquid Cooling needs at your fingertips on **shop.tipcotech.com!**



OEM Services

TIPCO works in concert with world-class manufacturers to specify and fabricate hose assemblies that meet the individual needs of all our OEM accounts. With a dedicated OEM Fabrication staff and facility, TIPCO offers:



ISO 9001-2015 Certified

- Customized Hose Assembly Kitting
- Danfoss E-Cert Distributor
- Customized Part Numbering
- · Bar Coding
- Proprietary Designing
- Complete Hose Testing & Certification
- Customer Dedicated Inventory
- Vendor Managed Inventory (VMI)
- Customized Packing
- Engineering & Drawings
- Contract Manufacturing



Metal Hose Fabrication

With a dedicated fabrication facility, our team of specialists can help design the perfect metal hose solution. Our capabilities include:

ASME Section IX Certified

- **Technical Support and Expertise:** Providing guidance and customized solutions.
- Stainless Steel Hose Stock: Available in sizes from 1/4" to 6".
- Comprehensive Product Range: Includes stainless and carbon steel fittings.
- **Robust Inventory:** Ensuring high-quality products to meet your project timeline.
- Industry Standards and Certifications: Ensuring safety and performance.
- **Top Suppliers:** Partnering with leading suppliers for quality and reliability.
- **Kit Assembly:** Offering convenient and efficient assembly options.





High Performance Computers and Data Centers



Rack & Door Cooling

Utilizes heat exchangers mounted on the rear doors of server racks. These exchangers remove heat from the exhaust air before it re-enters the room.

- **Hoses:** Flexible rubber or reinforced plastic hoses that can handle moderate pressure and temperature variations.
- **Couplings:** Quick-connect couplings are common for ease of maintenance and to prevent leaks. These include straight-through couplings allowing fluid to flow freely without any shut-off mechanism or single shut-off couplings that have a shut-off valve on one side to prevent fluid loss when disconnected.



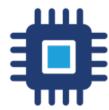


Cold Plate Cooling

Liquid coolant flows through cold plates attached directly to heat-generating components, absorbing and transferring heat away.

- Hoses: Silicone or EPDM hoses for flexibility and resistance to high temperatures and chemicals.
- **Couplings:** High-quality quick-connect couplings are essential to ensure a leak-free system. Types include non-spill couplings designed to prevent any fluid leakage during disconnection and high-pressure couplings capable of withstanding higher pressures associated with liquid cooling.





Direct to Chip

Liquid coolant is delivered directly to the processor chips and other critical components via flexible tubes. The coolant absorbs heat directly from the chip and carries it away.

- Hoses: Materials like PTFE or reinforced silicone can handle high temperatures and pressures.
- Couplings: Quick-connect couplings are used for easy connection and disconnection. Types include
 push-on hose fittings that are easy to install and do not require clamps or special tools or quickconnect couplings that facilitate maintenance and scalability, ensuring robust sealing to prevent
 leaks.





Immersion Cooling

Electronic components are submerged in nonconductive dielectric fluid. The fluid absorbs heat and is either circulated (single-phase) or evaporated and condensed (two-phase) to dissipate heat.

Single-Phase Immersion Cooling:

- **Hoses:** Typically made from silicone or EPDM, compatible with dielectric fluids and capable of withstanding operating temperatures and pressures.
- **Couplings:** Straight-through couplings which allow fluid to flow freely without any shut-off mechanism. Single shutoff couplings that have a shut-off valve on one side to prevent fluid loss when disconnected. Double shut-off couplings that have shut-off valves on both sides to prevent fluid loss from both ends when disconnected.

Two-Phase Immersion Cooling:

- **Hoses:** Materials like PTFE or reinforced silicone are often used to handle pressure changes associated with phase transitions.
- **Couplings:** Non-spill couplings that are designed to prevent any fluid leakage during disconnection or high-pressure couplings that are capable of withstanding the higher pressures associated with the vapor phase.

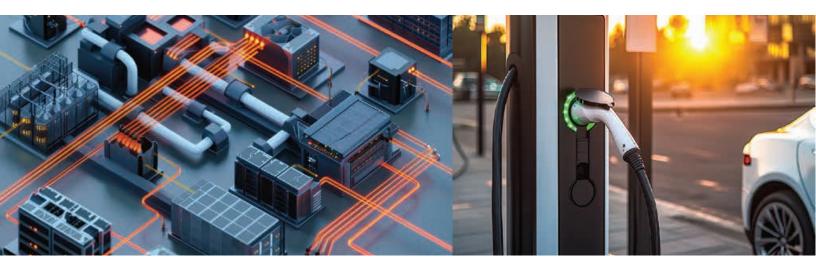




Cooling Distribution Units (CDUs)

Coolant Distribution Units (CDUs) can use both hard piping and flexible tubing, depending on specific cooling requirements, space constraints, and the need for future scalability. In many cases, a combination of both may be used to leverage the benefits of each type.

- **Hard piping,** typically made from materials like copper or stainless steel, offers excellent durability and long-term reliability. It can handle higher pressures and temperatures, making it suitable for demanding applications. Hard piping is usually installed in a fixed configuration, which can be beneficial for permanent setups but may limit flexibility for future modifications.
- Flexible tubing is easier to install and route through complex configurations, making it ideal for environments with space constraints. It allows for easier adjustments and modifications to the cooling system, which can be advantageous for scalable and modular data center designs. Flexible tubing can have a lower pressure drop compared to hard piping with multiple bends and fittings





EV Charging and Battery Cooling

Hoses and connectors are critical components in the thermal management systems of EV chargers, EV batteries, and charging stations.

- **Hoses** are part of the Battery Thermal Management System (BTMS), which regulates the temperature of lithium-ion batteries, ensuring optimal performance and safety.
- **Connectors** must meet rigorous safety standards, such as UL-94 certification, to minimize the risk of fires and ensure the safe operation of EV batteries

Your choice of hoses and connectors is vital for maintaining the efficiency, reliability, and safety of thermal management systems.

What to look for:

- Chemical Compatibility: Ensuring the materials are compatible with the coolant used to prevent degradation and leaks
- Pressure and Temperature Resistance: Choosing components that can withstand the operating conditions of the cooling system
- Flexibility and Bend Radius: Using flexible hoses to navigate tight spaces and complex configurations
- Leak Prevention: High-quality connectors and fittings to ensure a leak-free system





Industrial Power / Battery Storage

Liquid cooling plays a crucial role in industrial battery storage systems, enhancing their efficiency, reliability, and safety. Liquid cooled battery storage systems are used in commercial and industrial settings to manage energy consumption, provide backup power, and support renewable energy integration

- Superior Heat Dissipation: Liquid cooling systems are highly effective at removing heat from battery cells, preventing hotspots and ensuring uniform temperature distribution
- Minimized Risk of Overheating: Effective cooling reduces the risk of overheating, which is crucial for the safe operation of industrial battery storage systems
- **Microgrids:** Liquid cooling systems are essential for microgrids, providing energy storage and management capabilities to ensure a reliable and resilient power supply

Selecting the right hoses and connectors is essential for ensuring the efficiency, reliability, and safety of thermal management systems in industrial battery storage.

- Quick-Connect Couplings: Easy connection and disconnection without shutting down the system, making maintenance and scalability more convenient
- Leak Prevention: High-quality connectors ensure robust sealing, preventing leaks that could damage sensitive electronic components
- Chemical Compatibility: Ensuring the hoses and connectors are compatible with the coolant used to prevent degradation and leaks.
- **Durability:** Choosing components that can withstand the operating pressures and temperatures of the cooling system
- Ease of Installation: Using flexible hoses to navigate tight spaces and complex configurations.







Data Center Network

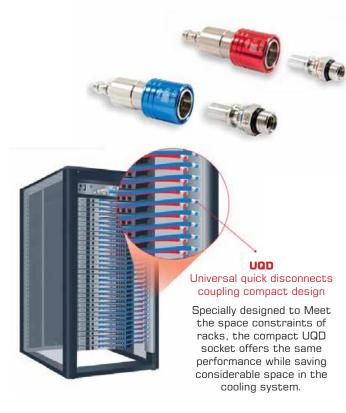
Danfoss Universal Quick Disconnect (UQD)

Specially designed to meet the space constraints of racks, the compact UQD socket offers the same performance while saving considerable space in the cooling system. Designed for fluid transfer and electronics cooling applications, it complies with OCP (Open Compute Project) and exceeds requirements of specified performance characteristics. Danfoss UQD offers color identification (red and blue) and guarantees 100% heliumleak testing.

- · Available in 4 different sizes and 2 color options
- Push-to-connect design
- · High flow and no spillage
- Double shut off flat face valves











Danfoss Hansen FD83 Coupling

Designed for fluid transfer and electronics cooling applications where full flow, fluid compatibility and safety are essential. The FD83 identical halves include two interlock features to eliminate spills and ensure maximum safety.

- Full flow coupling in a wide range of terminal end options
- Maintenance and service-friendly design provides reliable performance and no spillage during maintenance or service



Danfoss Hansen Universal Quick Disconnect Blind-Mate

(UQDB) has been designed with OCP (Open Compute Project) community to set industry standard for thermal management application in data centers inlouding direct-to-chip liquid cooling. This quick disconnect coupling is available in 4 different sizes and offers a self-alignment feature to help connect in location with limited access or visibility and guarantees 100% helium-leak testing on every coupling.











Designed with OCP (Open Compute Project) community to set industry standard for thermal management applications in data centers. Danfoss BMQC offers a self-alignment feature to help connect in a location with limited access or visibility and guarantees 100% helium-leak testing on every coupling.

- Plug hose barb and socket orb available in size 5mm
- High flow and reduced pressure drop for improved system efficiency
- Flat-face dry break design to avoid spillage during connection/ disconnection
- · Push-to-connect design



Danfoss Hansen MLDB SERIES

Stainless steel coupling is a flat face/ dry break coupling used for fluid transfer applications. The MLDB Series offers the ability to connect with less force, higher sealing performance and are available in multiple configurable end connections

- Sockets (female) and Plugs (male) available in sizes from 1/4" to 1".
- Color-coded socket rings available for 1/2" body (blue, red, yellow and green)







Boston by Danfoss

UL 94 V-O rated and offering superior flexibility and kink resistance, this hose was designed to maneuver in tight spaces to simplify installation and maintenance. Specifications:

- Construction Tube: Peroxide-cured Synthetic EPDM Rubber
- Cover: Fire retardant Synthetic EPDM Rubber in black, red, blue, and gray
- Reinforcement: 2-ply textile
- Temperature Range: -40°F to +284°F (-40°C to +140°C)
- Available with thin-wall: smaller diameter for improved flexibility and lower bending radius







Part Number	ID	OD	Op. Pres w/clamp	Min. Bend Radius	
EHW194-04RD-250R	0.25 in	0.75 in	232	2.0 in	
EHW194-06RD-250R	0.37 in	0.75 in	232	2.5 in	
EHW194-08RD-250R	0.50 in	1 in	232	3.0 in	
EHW194-10RD-250R	0.63 in	1 in	232	4.0 in	
EHW194-12RD-250R	0.75 in	1.25 in	232	5.0 in	
EHW194-16RD-250R	1 in	1.25 in	232	6.0 in	
EHW194 Thin-wall (TW) provides a smaller diameter for improved flexibility and lower bending force					
EHW194TW-04RD-250R	0.25 in	1.5 in	232	1.0 in	
EHW194TW-06RD-250R	0.37 in	2 in	232	1.4 in	



Ontinental

Continental's data cooling hoses are designed for various cooling applications, including direct-to-chip single-phase cooling. These advanced hoses ensure the reliable operation of sensitive electronic components by preventing overheating, malfunctions, data corruption, and hardware damage. Designed to optimize cooling efficiency, these hoses contribute to lower energy costs, reduced carbon footprints, and improved working conditions in data centers.



FlexCool Blade Reels

Designed for efficient cooling of server chips, this hose features a peroxide-cured EPDM tube and braided reinforcement for exceptional flexibility. Its lightweight construction and thin wall gauge enable easy routing, and it accommodates clamp, push-on, and crimped attachment methods. The hose also meets UL 94 V-O and HB flame safety standards.





Available in sizes 3/16" and 1/4"

FlexCool Jumper

This hose transitions cooling fluid from the manifold to individual server blades, offering compatibility with crimped, clamped, and push-on attachment methods. Its peroxidecured EPDM tube minimizes contamination risks by significantly reducing leaching compared to traditional sulfurcured hoses. UL 94 V-O and HB flame-rated covers provide added protection.







Various sizes from 3/8" to 1"

Data Guard

A kink- and twist-resistant source line hose, DataGuard is engineered to deliver a constant supply of coolant to server manifolds. It withstands extreme temperatures and features a peroxide-cured EPDM tube to protect both coolant and equipment integrity. Its cover meets UL 94 V-O or HB flame safety standards.









Available in UL94-HB and UL94-VO Sizes 1," 1 $\frac{1}{2}$ ", and 2"

Extreme Flex

A premium, ultra-flexible and lightweight source line hose, engineered to deliver a constant supply of coolant throughout your data center. The peroxide-cured tube protects both your coolant and equipment by maintaining fluid purity. The advanced design allows for an impressive 1:1 bend radius, ensuring easy routing and installation to the server systems. Our cover is certified to UL 94 HB flame safety standards which provides peace of mind in your high-heat environments.









Various sizes from 3/4" to 4"





Everis® quick disconnect couplings (QDs) are designed and manufactured specifically to meet the demands for high performance in liquid cooling for sensitive and critical environments. Everis quick release couplings from CPC offer strength and durability, ease of use, and reliability. Liquid cooling system designers benefit from CPC's application-specific innovation in a number of ways:

- · Disconnect under pressure with no spills
- Redundant sealing when connected
- · Color-coding provides instant visual difference in cooling lines
- Ultra-reliable protection from drips at disconnect even after long periods in connected state
- Enhanced latch design: easy to see orientation on manifolds and tubing
- Meets size requirements for space-constrained electronics





The Everis® LQ2 Series with 1/8" flow

The Everis® LQ4 Series quick disconnects with 1/4" flow

The Everis® LQ6 Series quick disconnect couplings feature

3/8" flow





CK & DOOR COOLII COOLING DISTRIBL

The CPC Everis®
UQDO2 Series of quick
disconnects (QDs) with
1/8" flow is great for
server applications.



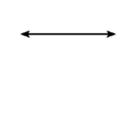
- Simple intuitive one-handed operation
- Audible click signals secure connection
- Barbed and threaded terminations suited for various tubing options including clampless locking hose barb for reinforced tubing



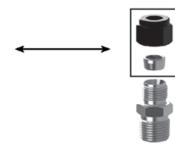












Griplok[®]



Duolok® tube fittings use a two-ferrule design to ensure leak-tight performance in analytical and process instrumentation applications where leak-tight performance can have a significant impact on quality, productivity and cost. They are designed and manufactured to interchange and intermix with Swagelok® and Parker A-Lok™ tube fittings.

Griplok® tube fittings use a proven dual-ferrule compression seal to provide leak-tight connections and are especially suited to applications with high vibration such as gas transmission and turbines. They are designed, manufactured, quality controlled and distributed to be totally "interchangeable" with the Hoke® Gyrolok® brand of tube fittings.

Unilok tube fittings are designed and manufactured to provide a reliable, leak-proof connection in instrumentation and process tubing systems. The single ferrule design, with the spring-like action of the ferrule during make-up, compensates for variations in tubing materials, hardness and thickness of the tube wall to provide leak-tight connections. Unilok tube fittings are designed to provide leak-tight intermix and interchange with Parker CPI™ tube fittings.





BRENNAN Safety, Protection, Hose and Cable Management Solutions

Uptime is everything in data centers. But tangled cables, mislabeled hoses, and unexpected leaks can quickly escalate. That's why Brennan's RHINO product line delivers tough, industrial-grade hose accessories for identification, organization, and leak control— critical for fire suppression, backup power, and cable management applications. Built for high-demand environments, RHINO helps keep infrastructure streamlined, secure, and optimized for proper airflow.

Identification



RHINO SPIRAL GUARD™

Color-code and bundle hoses and wires in one easy step for clean, identifiable organization.

- · Various sizes, available in blue, red, black and yellow
- Polyethylene
- FRAS Spiral Guard: Flame-resistant, anti-static option in black only



COLOR CODED SHRINK TUBING™

An easy, cost-effective way to identify warm vs. cold chiller hoses even when red & blue hoses aren't available.

- Various sizes
- Available in blue, black, clear, green, orange, red, white, and yellow

Organization



HANGING STRAP™

Keep hoses and cables off the ground, improving airflow and reducing trip hazards.

- Various sizes (4" to 44" Bundle Circumference)
- Nylon buckle or nickel plated



CINCH STRAP™

Keep cables and hoses locked down and organized to reduce clutter and improve airflow.

- Various sizes (4" to 44" Bundle Circumference)
- Nylon buckle or nickel plated

- Leak Control



DRIP PROOF PLUG™

Stop leaks at the source with easy-to-use, secure hose plugs after disconnection.

· Available in mini, small, medium, large and mixed



BLUE VINYL WRAP™

Wraps around chiller hoses to channel leaks toward the hose ends, preventing contact with servers.

- Various sizes from 1 1/2" to 9"
- Vinyl Coated Polyester w/ Velcro



RHINO SLEEVE® HT

RHINO Sleeve[®] HT is designed to provide the ultimate in hose protection against hydraulic hose failure by containing pressure and fluids that may escape during a hose burst or pinhole leak.

- Various sizes from 1/4" to 6"
- · Color red
- Fiberglass silicone











Saint Gobain Versilon™ PVDF

Versilon $^{\text{M}}$ PVDF copolymer tubing offers the chemical resistance of fluoropolymer tubing with added flexibility not found in standard PVDF. Its abrasion resistance, mechanical strength and inherent high purity make it ideal for a variety of aggressive applications.

Part Number	ID	OD	Wall Thick
TSPVF8-0125-031-50	1/16 in	1/8 in	1/32 in
TSPVF8-0187-031-50	1/8 in	3/16 in	1/32 in
TSPVF8-0250-062-50	1/8 in	1/4 in	1/16 in
TSPVF8-0250-040-50	8/47 in	1/4 in	1/25 in
TSPVF8-0312-062-50	3/16 in	5/16 in	1/16 in
TSPVF8-0375-062-50	1/4 in	3/8 in	1/16 in
TSPVF8-0375-031-50	5/16 in	3/8 in	1/32 in
TSPVF8-0437-062-50	5/16 in	7/16 in	1/16 in
TSPVF8-0500-062-50	3/8 in	1/2 in	1/16 in
TSPVF8-0625-062-50	1/2 in	5/8 in	1/16 in
TSPVF8-0750-062-50	5/8 in	3/4 in	1/16 in
TSPVF8-0875-062-50	3/4 in	7/8 in	1/16 in





Saint Gobain Versilon™ C-544-A IB

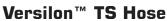
More flexible than may other reinforced urethane tubing, Versilon $^{\text{\tiny TM}}$ C-544-A IB tubing can often be used in applications requiring a tight bend radius where other tubes have collapsed and failed. Versilon $^{\text{\tiny TM}}$ C-544-A IB tubing also retains much of it's unique flexibility even at temperatures as low as -100°F (-73°C)

Part Number	ID	OD	Wall Thick
STG AZY02008	1/8 in	3/8 in	1/8 in
STG AZY02014	3/16 in	7/16 in	1/8 in
STG AZY02019	1/4 in	1/2 in	1/8 in
STG AZY02029	3/8 in	5/8 in	1/8 in
STG AZY02038	1/2 in	3/4 in	1/8 in
STG AZY02046	5/8 in	7/8 in	1/8 in
STG AZY02054	3/4 in	1-1/16 in	5/32 in
STG AZY02064	1 in	1-3/8 in	3/16 in
STG AZY00071	1-1/4 in	1-3/4 in	1/4 in
STG AZY00074	1-1/2 in	2 in	1/46 in
STG AZY00078	2 in	2-1/2 in	1/46 in









Versilon™ TS hose from Saint-Gobain is constructed with a white PTFE inner core and reinforced with 304 stainless steel braid with superior kink resistance, improved vacuum ratings, and better damage resistance. Versilon TS hose is designed with a full size internal diameter to maximize the flow rate, providing greater transfer speed, and engineered to reduce the pressure drop through the fitting area, ensuring a longer service life.

Part Number	ID	OD	Max WP (psi)	Min. Bend Radius
1602TS400	1/8 in	1/4 in	3000	1.00 in
1604TS400	1/4 in	3/8 in	3000	2.0 in
1606TS400	3/8 in	1/2 in	2500	4.50 in
1608TS400	1/2 in	5/8 in	2500	5.00 in
1612TS400	3/4 in	7/8 in	1200	9.00 in
1616TS500	1 in	1-1/8 in	800	12.00 in
1624TD600	1-1/2 in	1-3/4 in	900	18.00 in





The Right Connection®

Dixon E-Series Hydraulic Couplings

- Straight-Through Female Threaded Couplers (brass or stainless) available in sizes 1/8"-2"in
- Straight-Through Male Threaded Couplers (brass or stainless) available in sizes 1/8"-2"in
- Straight-Through Hose Barb Couplers (brass) available in sizes 1/4"-1"in

Features & Specifications

- · Couplers have no internal valves, which provide maximum flow with minimum pressure drop
- Nitrile rubber seals are standard, providing a temperature range of -40°F to 250°F (-40°C to 121°C)

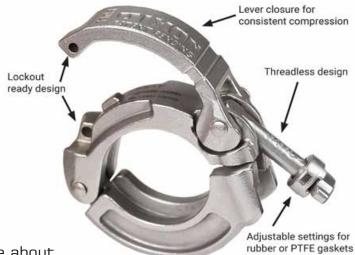


Dixon 13SCC-Series Clever Clamp

With its easy-to-use lever closure, it provides fast and consistent compression on both rubber and PTFE gasket connections every time. No torquing, no tools; just clamp and go!



- Available in 4 sizes: 1-1/2", 2", 3", and 4"
- · Consistent compression of the gasket with every use
- Adjustable for both rubber and PTFE gasket styles
- · Fast installation, no torquing tools required
- Threadless design, eliminates risk of damaged threads leading to improper tightening of the wingnut
- Lockout ready design aligned holes in clamp body make cable locking fast and easy
- Self-locking lever and color-coding options available (red, blue, green and yellow)





Scan to learn more about Clever Clamps







EV HARGING/ BATTERY S TORAGE

POWER BATTER STORAG





The Right Connection®

Dixon NPT Adapters

- Female NPT Adapters 22MP: Available in a variety of sizes from 1/2"-4" in 316SS and from 1in to 4 in in 304SS.
- Male NPT Adapters 21MP: Available in a variety of sizes from 1/2"-6" in 316SS and from 1in to 8in in 304SS









Dixon 14MPHRL SERIES Stainless Steel Clamp Fittings

- Rubber Hose Adapters 14MPHR: Available in a variety of sizes from 1/2"-10"
- Barb Adapters 14MPHRL: Available in a variety of sizes from 1/2"-6"











Dixon Clamp Fittings - Elbows

90° Clamp Elbows - B2CMP (304SS and 316LSS) 45° Clamp Elbows - B2KMP (304SS and 316LSS)









B7MP-R50 - Clamp Tee

- Short Outlet Tees B7MPS
- Clamp Tees B7MP
- Clamp Reducing Tees B7RMP











Single Pin Squeeze Clamps - 13MHHM-Q

This clamp features a single pin and a wing nut for tightening. It is designed for easy disassembly and reassembly.

• Available in sizes for tube OD from 1/4"-4"









Single Pin Heavy Duty Clamps with Cross Hole Wing Nut - 13MHHM1

Designed for more robust applications where higher pressure and more secure connections are needed.

• Available in a variety of sizes for tube OD from 1/2"-8"











Bolted Clamps - 13MHP

Ideal for high-pressure and high-temperature applications where maximum durability and reliability are required.

• Available in sizes for tube OD from 1/2"-12"









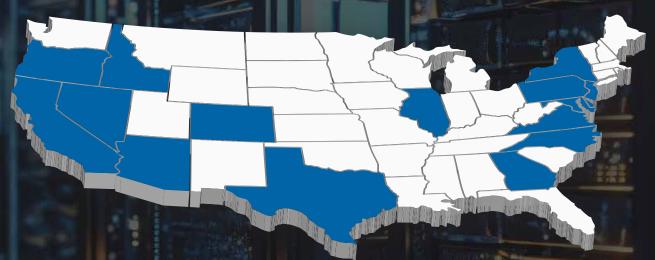


People.Partnerships.Innovation.

ONE TIPCO signifies the strength and unity of our organization from coast-to-coast, driven by cuttingedge technology, strong brand identity, and forward-thinking strategies, powered by our dedicated people and partnerships, all working together to achieve excellence and innovation.

Powered By **TIPCO**

TIPCO Technologies is proudly made up of a diverse range of companies that enhance our offerings and capabilities, all powered by our unwavering commitment to quality and customer satisfaction. Each company in our family brings unique expertise and innovative solutions, allowing us to provide a comprehensive suite of products and services tailored to meet the needs of our customers. Together, we leverage our strengths to drive growth, foster collaboration, and deliver exceptional value, ensuring that our customers receive unparalleled support and the best solutions available in the industry.



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Tucson, AZ (Alternative)

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