

# Cold-fitting connectors and couplers



## AI Overview

Cold-fitting connectors and couplers allow quick, secure, and leak-free connections in fluid and thermal management systems without the need for heat or soldering.

**Overview** Cold-fitting connectors, also known as quick-connect or quick-disconnect couplers, are designed to join fluid lines, hoses, or tubing efficiently while preventing leaks and spills. Unlike permanent fittings, they do not require heat, adhesives, or specialized tools for installation, making them ideal for systems that require frequent assembly, maintenance, or modularity.

**Key Features**

- Push-Button or Turn-to-Connect Mechanisms:** Many couplers, such as CPC (Colder) or Danfoss Hansen UQD, feature push-button or turn-to-connect designs that allow rapid connection and disconnection without fluid loss.
- Built-in Shutoff Valves:** These prevent spills when disconnecting lines, ensuring safety and cleanliness in sensitive applications.
- Material Options:** Plastic couplers (acetal, nylon) are lightweight, corrosion-resistant, and cost-effective, while metal couplers provide higher durability, pressure tolerance, and resistance to vibration or thermal cycling.
- Color Coding and Identification:** Some couplers use color coding to distinguish fluid lines, reducing the risk of misconnection.

**Applications** Cold-fitting connectors and couplers are widely used in:

- Liquid Cooling Systems:** For electronics, data centers, and supercomputers, ensuring secure, leak-free connections under thermal stress.
- Medical and Biotech:** Sterile connectors like CPC AseptiQuik® support single-use systems in biopharmaceutical and cell therapy applications.
- Industrial and Hydraulic Systems:** Quick-disconnect couplings facilitate maintenance and modular assembly in machinery, pumps, and fluid transfer systems.

**Advantages**

- Rapid Assembly and Maintenance:** Couplers allow fast connection and disconnection, reducing downtime in modular or service-intensive systems.
- Leak Prevention:** Flat-face or dry-break designs minimize fluid loss and prevent air ingress.
- Versatility:** Suitable for a wide r...

## Article Content

### Thermal management quick disconnect couplings

Our couplings are designed with ease-of-use in mind, making installation and maintenance a breeze. Danfoss Hansen 5400 Series is specifically designed to

### Quick Couplings and Dry Connectors | Stäubli

A recognized expert in safe, quick connection of fluids, gases, hydraulics, and power supplies, Stäubli offers a wide range of dry disconnect and quick connect

### Formwork Tie Rod System, Aluminium, Plastic

As a professional manufacturer and supplier of construction hardware from China, we offer the high quality products worldwide. Shijiazhuang Trico is engaged in

### CPC (Colder) Quick Connect Disconnect

Special features of CPC products include precise hose barbs for superior grip, built-in shutoff valves for preventing spills, and easy-to-use, push-button thumb latches for quick connections and

### Cold Forged Parallel Threaded Couplers | cold forged rebar coupler

Comprehensive Range of Rebar Couplers □ Forge Fit Couplers (Cold Forged Couplers)  
Cold forged couplers by Vruddhi Engineering provide dependable rebar splicing. These couplers are

### CPC (Colder) Quick Connect Disconnect

CPC quick disconnect fittings provide a reliable and more secure alternative to luer-type connections and improve the functionality at your point of connection.

### Couplers hose clamps and fitting selection | Eaton

Couplers, hose clamps and fitting selection Fluid line connectors are essential to liquid cooling loops. Engineers must consider selection, installation and maintenance of a system's fluid connections to

### Liquid Cooling Connections | Parker Hannifin

Parker is the leader in quick connect, non-spill couplings solutions for liquid cooling/thermal management for servers, data centers, and supercomputers.

### Hose Fittings & Couplings

When it comes to Hose Fittings & Couplings, you can count on Grainger. Supplies and solutions for every industry, plus easy ordering, fast delivery and 24/7 customer support.

### Quick Connect & Disconnect Fittings | Coupling

CPC is the leading innovator of quick connect and disconnect fluid couplings, fittings and connectors rated for bio, medical and industrial applications.

### 13 Types of Pipe Fittings

Learn about the types of pipe fittings that are used to connect pipe together in plumbing. This guide details the uses of pipe fittings and their shapes, functions, connections and materials.

### Quick Disconnects & Connect Fittings | Coupling

Find everything you need to know about quick disconnect and connect fittings from CPC, including applications, varieties and answers to common questions.

### Pipe Fittings, Adapters & Outlets Product Listings

Specializing in delivering the highest quality pipe fittings, adapters and outlets in a variety of sizes, Victaulic pipe fitting products not only meet but exceed

### Fittings

Oring, flare, quick disconnect and metric are four of the main a/c connections. Coldhose uses pictures to identify these fittings. Please match your fitting to the picture as a quick reference when choosing

### A Complete Guide to Cold Plate Fittings For Liquid

This article provides a practical, engineering-oriented overview of what types of fittings are typically used on cold plates, which standards and sizes are common

### Wiley Online Library

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

### Valved Connectors & Quick Disconnect Fittings | CPC

Make fluid transfers quick and easy with CPC valved quick disconnect fittings. A broad range of equipment and devices functions by transferring liquids or gasses

### CPC Colder Products: Fittings, Dispensers, Valves & Accessories

Shop the largest selection of CPC Colder products, including CPC fittings, connectors, couplings, and more. Order a CPC Company Colder product from RG Group.

### Extensive range of quick and dry disconnect couplings

The wide range of Stäubli quick-release couplings, either full flow diameter or non-spill, with sizes ranging from 3 mm to 65 mm, will deliver long-term reliability.

### Browse General Purpose Connectors and Couplings | CPC

Purpose-built CPC couplings, connectors and fittings are critical wherever there is a need to connect flexible tubing to manage fluid transfer. CPC's innovative design

## A Guide to Air Compressor Fittings

Key Takeaways: Air compressor fittings are crucial for maintaining consistent airflow and pressure to keep your system running efficiently. The three

## Liquid Cooling Couplings | Quick Connects

From HPC clusters and data centers to advanced imaging and power-dense electronics, Everis liquid cooling couplers help manage heat with precision.

## Connection Solutions Catalog (8x11) | CPC

FITQUIK® FITTINGS, LUERS, AND BLOOD PRESSURE CONNECTORS PAGES 156-163  
158 FITQUIK® CONNECTORS: High-quality fittings for leak-free tubing connections. These precision

## CPC (Colder) Quick Connect Disconnect

Colder (CPC) quick connect and disconnect solutions improve the functionality at your point of connection. Special features of CPC products include precise hose barbs for superior grip, built-in

## Couplers hose clamps and fitting selection | Eaton

Liquid cooling fluid connectors typically fall into two categories: fittings and couplings. This article reviews fittings and couplings in addition to hose clamps and quick disconnects. Learning how to

## Contact Us

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