

**New High Flow  
Thermoplastic  
Quick Disconnect  
Couplings...**



**High Flow Coupling, FT-HFC-12, see page L-87**  
OMEGA's high capacity polypropylene coupling for 3/8", 1/2" and 3/4" tubing. 3/8" flow path minimizes pressure drop with high viscosity fluids or chemicals.



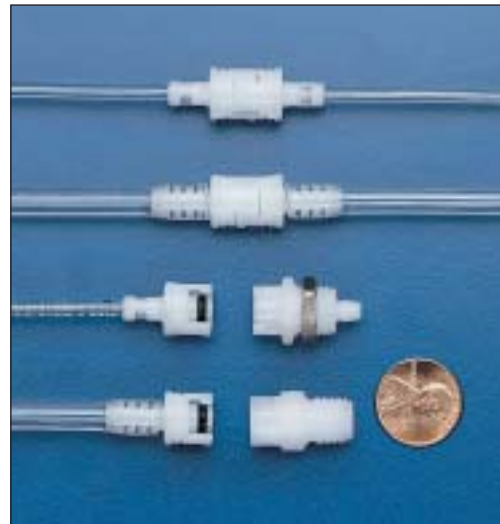
**New Polysulfone  
High Flow Coupling,  
FT-HFC-35, see page L-89**

Higher temperature and pressure quick disconnect with 3/8" flow path for minimal pressure drop. Hose barb ends for 3/8", 1/2" and 3/4" tubing.



**Streamline Coupling, 1/8" Flow FT-PMC, 1/4" Flow FT-PLC, see pages L-81 & L-86**

New streamlined design makes this in-line coupling more affordable for tight budget OEM applications. Ergonomic enhancements make it easier to disconnect.



**Subminiature Coupling,  
FT-SMC, see page L-91**

The small twist lock coupling with a leak-free O-Ring seal. For 1/16" and 1/8" ID tubing.



# Chrome-Plated Brass Couplings



## Chrome-Plated Brass Coupling, 1/8" Flow FT-MC, see page L-93

1/8" flow brass couplings are durable and attractive. Rated to 250 psi for higher pressure applications: air supply lines, cooling lines, beverage dispensing and instrumentation.



OMEGA® standard chrome-plated brass couplings have Delrin acetal valves and Buna-N seals. Other valve and O-Ring materials are available.



## Chrome-Plated Brass Coupling, 1/4" Flow FT-LC, see page L-95

1/4" flow brass couplings are a larger flow quick coupling. Rated to 250 psi for higher pressure applications: air supply lines, cooling lines, beverage dispensing and instrumentation.



## Keyed & Color-Coded Chrome-Plated Brass, see page L-98

Three unique mechanically keyed and color-coded quick disconnect configurations prevent interchange of fluid lines.

# Specialty Couplings



**Multitube Couplings, see page L-99**

Quickly connect up to ten tubing lines with a single connector. Connections for both 1/16" and 1/8" tubing.



**Multiple Mount Couplings, see page L-101**

Connect 3 to 5 tubing lines at once with standard quick couplings. Delrin acetal or chrome-plated brass couplings.



**Shutoff Valves, see page L-104**

Easy-to-use in-line shutoff valve controls flow. Available for 1/8" to 3/8" ID tubing.

# Fittings & Accessories



**Soft Tubing Fittings, see page L-105**

Easy-to-use, clamp-free fittings won't damage tubing. Made for flexible vinyl tubing in 1/4", 3/8" and 1/2" ID sizes.





MATERIALS IN MOUNTING CONFIGURATION

# OMEGA® Quick Disconnect Couplings For Small Plastic Tubing

**OMEGA® Couplings** add the convenience of quick disconnect coupling with easy operation. Press the thumb latch and the coupling halves separate. Connection is just as easy: simply push the two halves together. An audible “click” along with a positive feel assures you of a reliable leak-free connection.

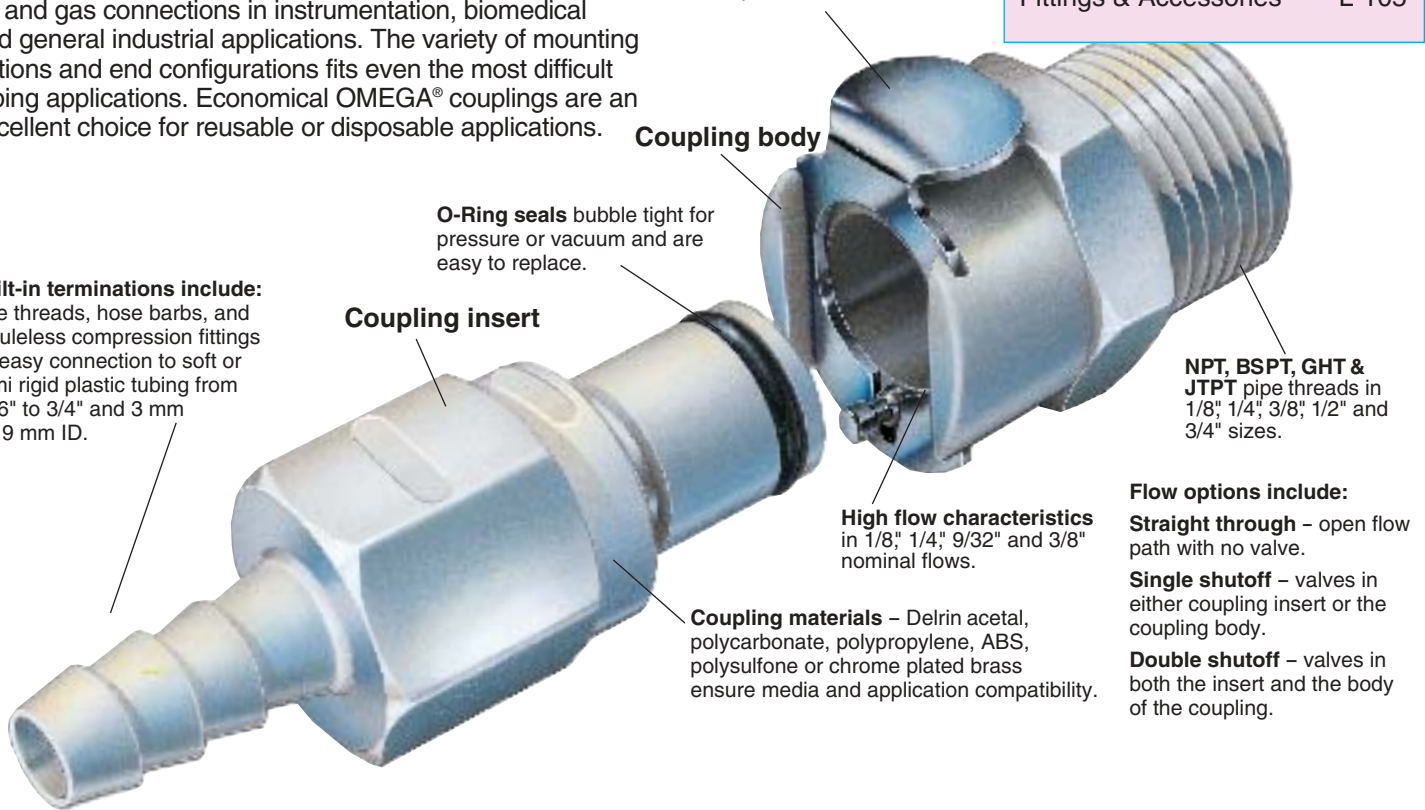
**Proven reliable**, OMEGA® couplings are used for liquid, air and gas connections in instrumentation, biomedical and general industrial applications. The variety of mounting options and end configurations fits even the most difficult tubing applications. Economical OMEGA® couplings are an excellent choice for reusable or disposable applications.

**Automatic latching**  
To connect coupling—slide insert into body, feel the latch engage, hear the click. It's secure.  
**One-hand disconnect**—press thumb latch and separate the halves.

**OMEGA Engineering** is the leader in small tubing connections. Our worldwide sales and distributor network provides service and technical support to meet customer needs. Find the connection you need on these pages or call us at 1-800-TC-OMEGA®.

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**Built-in terminations include:** pipe threads, hose barbs, and ferruleless compression fittings for easy connection to soft or semi rigid plastic tubing from 1/16" to 3/4" and 3 mm to 19 mm ID.



**Flow options include:**  
**Straight through** – open flow path with no valve.  
**Single shutoff** – valves in either coupling insert or the coupling body.  
**Double shutoff** – valves in both the insert and the body of the coupling.

## Coupling Materials

### DELRIN ACETAL THERMOPLASTIC

A general purpose thermoplastic material that is lightweight, non-corrosive, strong and economical.

**Applications:** Air, oil, water, or gas supply and drainage lines, beverage or food handling.

### POLYPROPYLENE THERMOPLASTIC

Chemically resistant; replaces heavy brass or stainless steel couplings. Gamma sterilizable.

**Applications:** Chemicals, photo processing, laboratory work, caustic fluid and gas transfer, medical disposables.

### POLYSULFONE THERMOPLASTIC

Superior strength and good chemical resistance, ideal for strong oxidants, hot/cold liquids. Withstands repeated sterilization.

**Applications:** Bleach, chemicals, hot water, gas transfer, potable water systems, medical uses requiring autoclaving.

### CHROME-PLATED BRASS

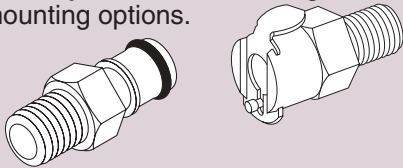
Durable and attractive, chrome-plated brass quick couplings are excellent for higher pressures and temperatures.

**Applications:** Pneumatic air supply, instrumentation, cooling and high temperature lines.

# Shutoff Valves & Flow Characteristics

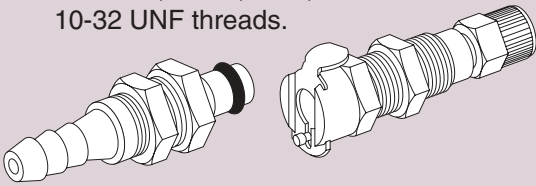
## Mounting Configurations

Quick couplings and connectors add versatility and convenience to any fluid handling system. OMEGA® couplings are economical and easy to install. They quickly pay for themselves in labor and maintenance cost savings. OMEGA's leak free couplings include a variety of built-in end fitting and mounting options.



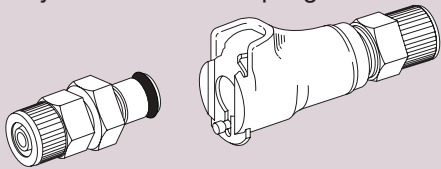
### RIGID MOUNT

Pipe threads are standard for body and insert halves of most plastic and brass couplings. Sizes include 1/8" to 3/4" NPT, BSPT, GHT, JTPT and 10-32 UNF threads.



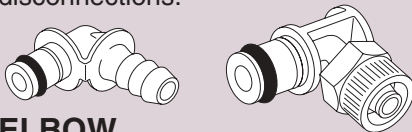
### PANEL MOUNT

Easy to mount in panels up to 1/2" thick. Available for both insert and body halves of the coupling.



### IN LINE

Convenient configuration for tube splicing. Built-in thumb latch shroud protects against accidental disconnections.



### ELBOW

OMEGA's 90° elbows are available for inserts with both hose barbs and ferruleless fitting connections.

### Interchangeable Bodies & Inserts

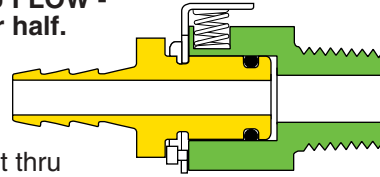
Delrin and chrome-plated brass coupling halves are interchangeable. Polypropylene coupling halves cannot be interchanged with other materials.

## Valving Options

Valves stop flow automatically when the coupling is disconnected. Shutoff valves are available in both the body and insert half of the coupling.

### STRAIGHT THRU FLOW - no valve in either half.

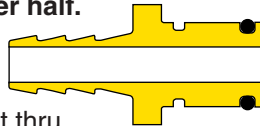
Insert, straight thru



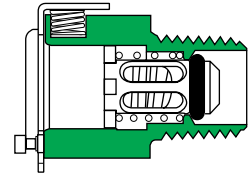
Coupling body, straight thru

### SINGLE END SHUTOFF - one valve in either half.

Insert, straight thru

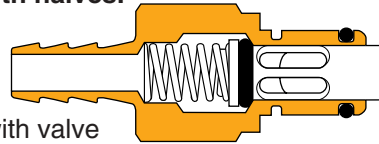


Coupling body, with valve

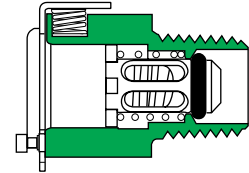


### DOUBLE END SHUTOFF - valves in both halves.

Insert, with valve

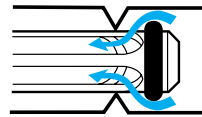


Coupling body, with valve

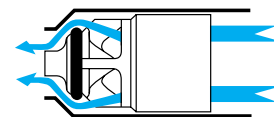


## High Flow Valves

OMEGA® couplings provide the highest flowrate with the smallest pressure drop of any comparable coupling on the market. Two different OMEGA® valve designs fit most applications:



FT-MC/PMC & FT-LC/PLC Series valves

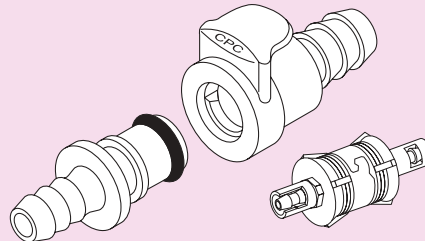


High Flow coupling, FT-HFC Series valves

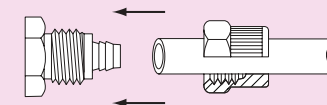
## Tubing Connections

### HOSE BARBS

Ideal for PVC, polyurethane and other rubber and plastic tubing. Available for 1/16" to 3/4" and 3 mm to 19 mm ID tubing sizes.



1/16" hose barb has patented shroud to protect the barb from side load damage and prevent tube kinks. U.S. Patent #4703957.



### FERRULELESS, PTF

OMEGA's unique ferruleless design ensures leak-free connections to semi-rigid tubing such as polyethylene or nylon. Available for 5/32", 1/4" and 3/8" OD tubing (and metric equivalents).



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