

# Хромированные латунные муфты LC

## Технические характеристики

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# LC SERIES CONNECTOR

**CPC's LC Series chrome-plated brass couplings** are built tough and made to last in the most demanding applications. Ideal for use with higher temperature or pressure, the LC Series features a one-hand operation for swift and easy connects and disconnects. These couplings offer the flexibility of multiple configurations and terminations to mate with both the PLC acetal and PLC12 polypropylene couplings.



## SPECIFICATIONS

### PRESSURE:

Vacuum to 250 psi, 17.3 bar

### TEMPERATURE:

-40°F to 180°F (-40°C to 82°C)  
(High temperature versions available with ratings to 400°F)

### MATERIALS:

**Main components:** Chrome-plated brass

**Thumb latch:** Stainless steel

**Valves:** Acetal

**Valve springs:** 316 stainless steel

**External springs and pin:** Stainless steel

**O-rings:** Buna-N

### FINISH:

Chrome

### TUBING SIZES:

1/4" to 3/8" ID, 6.4mm to 9.5mm ID

WARNING: Pressure, temperature, chemicals, and operating environment can affect the performance of couplings. It is the customer's responsibility to test the suitability of CPC products in their own application conditions.

### FEATURES

Brass material

### BENEFITS

Durable construction withstands higher pressure and temperature

Chrome plating

Attractive appearance

High temperature capability

Versions rated to 400°F (204°C)

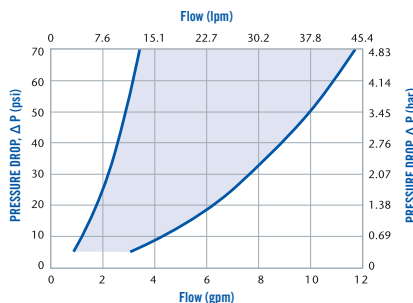
CPC thumb latch

One-hand connection and disconnection

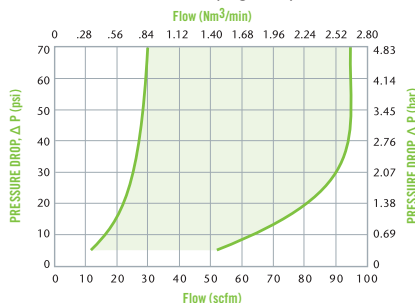
Compatible

LC mates with PLC and PLC 12 Series couplings

#### LC WATER FLOW



#### LC AIR FLOW • 100 psig inlet pressure



These graphs are intended to give you a general idea of the performance capabilities of each product line. The shaded area of each graph represents the operating range of the product family, i.e., upper and lower values are shown. Therefore, depending on the exact coupling configurations selected, you can reasonably expect values to fall within the shaded area.

## DID YOU KNOW

O-ring selection is a key decision in determining which connector will perform best in your specific application. Understanding the material characteristics and how they can be affected by both the media being transferred and the environment in which the connector is being used is important.

## NOTE

High temperature versions available with ratings to 400 F. Call customer service for more information.



## NSF OPTION AVAILABLE

This product has an NSF compatible product for food applications. Our food-grade couplings are superior to general fittings for fluid control because they incorporate built-in shutoff valves, enabling tubing to be disconnected without having to turn off the water supply. Scan the QR code to be taken to the NSF specific product web page.

## LIQUID FLOW RATE INFORMATION FOR COUPLINGS

The chart below shows the flow rate for CPC couplings. Each coupling was tested with water at 70°F (21°C). To determine flow rates for specific coupling configurations use the formula to the right.

$$Q = C_v \sqrt{\frac{\Delta P}{S}}$$

**Q** = Flow rate in gallons per minute  
**C<sub>v</sub>** = Average coefficient across various flow rates (see chart)  
**ΔP** = Pressure drop across coupling (psi)  
**S** = Specific gravity of liquid

### C<sub>v</sub> VALUES

### INSERTS

### BODIES

|          | LC<br>20004 | LCD<br>20004 | LC<br>20006 | LCD<br>20006 | LC<br>22004 | LCD<br>22004 | LC<br>22006 | LCD<br>22006 | LC<br>24004 | LCD<br>24004 | LC<br>24006 | LCD<br>24006 | LC<br>26004 |
|----------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|
| LC10004  | 0.40        | 0.36         | 1.05        | 0.58         | 0.83        | 0.56         | 1.40        | 0.82         | 1.40        | 0.75         | 1.40        | 0.77         | 0.83        |
| LCD10004 | 0.36        | 0.31         | 0.73        | 0.48         | 0.66        | 0.41         | 0.82        | 0.50         | 0.80        | 0.45         | 0.77        | 0.45         | 0.81        |
| LC10006  | 0.40        | 0.36         | 1.05        | 0.60         | 0.83        | 0.56         | 1.40        | 0.81         | 1.40        | 0.76         | 1.40        | 0.76         | 0.83        |
| LCD10006 | 0.37        | 0.31         | 0.81        | 0.47         | 0.70        | 0.43         | 1.02        | 0.51         | 0.98        | 0.46         | 0.99        | 0.48         | 0.98        |
| LC12006  | 0.38        | 0.36         | 0.84        | 0.63         | 0.74        | 0.56         | 1.14        | 0.75         | 1.14        | 0.70         | 1.14        | 0.72         | 0.74        |
| LCD12006 | 0.38        | 0.33         | 0.78        | 0.49         | 0.68        | 0.44         | 0.84        | 0.49         | 0.81        | 0.43         | 0.82        | 0.44         | 0.81        |
| LC16004  | 0.38        | 0.37         | 0.87        | 0.54         | 0.95        | 0.51         | 1.00        | 0.70         | 0.95        | 0.64         | 1.00        | 0.66         | 0.95        |
| LCD16004 | 0.37        | 0.31         | 0.61        | 0.44         | 0.57        | 0.41         | 0.78        | 0.44         | 0.78        | 0.43         | 0.75        | 0.46         | 0.78        |
| LC16006  | 0.38        | 0.37         | 1.00        | 0.57         | 0.95        | 0.53         | 1.40        | 0.80         | 1.40        | 0.71         | 1.40        | 0.73         | 1.40        |
| LCD16006 | 0.38        | 0.32         | 0.71        | 0.49         | 0.63        | 0.42         | 0.89        | 0.51         | 0.96        | 0.45         | 0.92        | 0.49         | 0.97        |

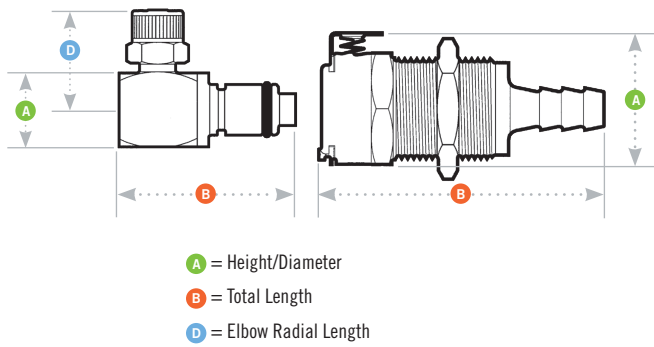
# LC SERIES DIMENSIONS

COUPLING BODIES - Chrome-plated brass

|                                                                                   | TERMINATION                                             | TUBING/THREAD SIZE | METRIC EQ          | STRAIGHT THRU | SHUTOFF      | A           | B           |
|-----------------------------------------------------------------------------------|---------------------------------------------------------|--------------------|--------------------|---------------|--------------|-------------|-------------|
|  | IN-LINE<br>PIPE THREAD                                  | 1/4" NPT           |                    | LC10004       | LCD10004     | 0.88 (22.4) | 1.15 (29.2) |
|                                                                                   |                                                         | 1/4" BSPT          |                    | LC10004BSPT   | LCD10004BSPT | 0.88 (22.4) | 1.15 (29.2) |
|                                                                                   |                                                         | 3/8" NPT           |                    | LC10006       | LCD10006     | 0.88 (22.4) | 1.15 (29.2) |
|                                                                                   |                                                         | 3/8" BSPT          |                    | LC10006BSPT   | LCD10006BSPT | 0.88 (22.4) | 1.15 (29.2) |
|   | PANEL MOUNT<br>FERRULELESS<br>POLYTUBE FITTING,<br>PTF† | 1/4" OD, 0.17" ID  | 6.4mm OD, 4.3mm ID | LC12004       | LCD12004     | 0.88 (22.4) | 1.87 (47.5) |
|                                                                                   |                                                         | 3/8" OD, 1/4" ID   | 9.5mm OD, 6.4mm ID | LC12006       | LCD12006     | 0.88 (22.4) | 2 (50.8)    |
|   | PANEL MOUNT<br>HOSE BARB                                | 1/4" ID            | 6.4mm ID           | LC16004       | LCD16004     | 0.88 (22.4) | 2 (50.8)    |
|                                                                                   |                                                         | 5/16" ID           | 7.9mm ID           | LC16005       | LCD16005     | 0.88 (22.4) | 2 (50.8)    |
|                                                                                   |                                                         | 3/8" ID            | 9.5mm ID           | LC16006       | LCD16006     | 0.88 (22.4) | 2 (50.8)    |
|  | PANEL MOUNT<br>MALE THREAD                              | 1/4" NPT           |                    | LC15004       | LCD15004     | 0.88 (22.4) | 1.5 (38.1)  |
|   | IN-LINE<br>FERRULELESS<br>POLYTUBE FITTING,<br>PTF†     | 1/4" OD, 0.17" ID  | 6.4mm OD, 4.3mm ID | LC13004       | LCD13004     | 0.88 (22.4) | 1.87 (47.5) |
|                                                                                   |                                                         | 3/8" OD, 1/4" ID   | 9.5mm OD, 6.4mm ID | LC13006       | LCD13006     | 0.88 (22.4) | 2 (50.8)    |
|  | IN-LINE<br>HOSE BARB                                    | 1/4" ID            | 6.4mm ID           | LC17004       | LCD17004     | 0.88 (22.4) | 2 (50.8)    |
|                                                                                   |                                                         | 5/16" ID           | 7.9mm ID           | LC17005       | LCD17005     | 0.88 (22.4) | 2 (50.8)    |
|                                                                                   |                                                         | 3/8" ID            | 9.5mm ID           | LC17006       | LCD17006     |             | 2 (50.8)    |

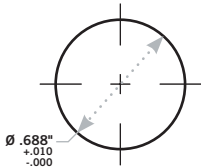
All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters.  
†NOTE: CPC's Ferruleless PTF (polytube fitting) terminations do not require ferrules to achieve a secure connection and are therefore easier to use and reuse. PTF fittings are designed for semi-rigid tubing, i.e., polyethylene, nylon, polyurethane, etc. NOTE: Elbow configurations are available. Contact CPC for more information.

## PRODUCT DIMENSIONS



## PANEL DIMENSIONS

|                  | PANEL<br>OPENING | PANEL THICKNESS<br>MAX.-MIN. | PANEL<br>NUT HEX | PANEL NUT<br>THREAD |
|------------------|------------------|------------------------------|------------------|---------------------|
| COUPLING BODIES  | see drawing      | 0.50 – 0.05                  | 13/16            | 11/16-24UNEF        |
| COUPLING INSERTS | see drawing      | 0.090– 0.300                 | 13/16            | 11/16-24UNEF        |



## COUPLING INSERTS - Chrome-plated brass

|                                                                                     | TERMINATION                                                   | TUBING/THREAD SIZE | METRIC EQ          | STRAIGHT THRU | SHUTOFF      | A           | B                     | D           |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------|--------------------|--------------------|---------------|--------------|-------------|-----------------------|-------------|
|    | <b>IN-LINE<br/>PIPE THREAD</b>                                | 1/4" NPT           |                    | LC24004       | LCD24004     | 0.72 (18.3) | 1.25/1.68 (31.8/42.7) |             |
|                                                                                     |                                                               | 1/4" BSPT          |                    | LC24004BSPT   | LCD24004BSPT | 0.72 (18.3) | 1.25/1.68 (31.8/42.7) |             |
|                                                                                     |                                                               | 3/8" NPT           |                    | LC24006       | LCD24006     | 0.87 (22.1) | 1.25/1.55 (31.8/39.4) |             |
|                                                                                     |                                                               | 3/8" BSPT          |                    | LC24006BSPT   | LCD24006BSPT | 0.87 (22.1) | 1.25/1.55 (31.8/39.4) |             |
|    | <b>IN-LINE<br/>PIPE THREAD (FEMALE)</b>                       | 1/4" NPT Female    |                    | LC26004       | LCD26004     | 0.72 (18.3) | 1.25/1.90 (31.8/48.3) |             |
|                                                                                     |                                                               | 1/4" BSPP Female   |                    | LC26004BSPP   | LCD26004BSPP | 0.72 (18.3) | 1.25/1.75 (31.8/44.5) |             |
|    | <b>PANEL MOUNT<br/>FERRULELESS POLYTUBE<br/>FITTING, PTF†</b> | 1/4" OD, 0.17" ID  | 6.4mm OD, 4.3mm ID | LC40004       | LCD40004     | 0.94 (23.9) | 1.83/1.98 (46.5/50.3) |             |
|                                                                                     |                                                               | 3/8" OD, 1/4" ID   | 9.5mm OD, 6.4mm ID | LC40006       | LCD40006     | 0.94 (23.9) | 1.96/2.11 (47.8/53.6) |             |
|    | <b>PANEL MOUNT<br/>HOSE BARB</b>                              | 1/4" ID            | 6.4mm ID           | LC42004       | LCD42004     | 0.94 (23.9) | 1.96/2.11 (47.8/53.6) |             |
|                                                                                     |                                                               | 5/16" ID           | 7.9mm ID           | LC42005       | LCD42005     | 0.94 (23.9) | 1.96/2.11 (47.8/53.6) |             |
|                                                                                     |                                                               | 3/8" ID            | 9.5mm ID           | LC42006       | LCD42006     | 0.94 (23.9) | 1.96/2.11 (47.8/53.6) |             |
|    | <b>IN-LINE<br/>FERRULELESS POLYTUBE<br/>FITTING, PTF†</b>     | 1/4" OD, 0.17" ID  | 6.4mm OD, 4.3mm ID | LC20004       | LCD20004     | 0.72 (18.3) | 1.25/1.87 (31.8/47.5) |             |
|                                                                                     |                                                               | 3/8" OD, 1/4" ID   | 9.5mm OD, 6.4mm ID | LC20006       | LCD20006     | 0.72 (18.3) | 1.38/1.83 (1.4/35.1)  |             |
|    | <b>IN-LINE<br/>HOSE BARB</b>                                  | 1/4" ID            | 6.4mm ID           | LC22004       | LCD22004     | 0.63 (16.0) | 1.35/2.00 (34.3/50.8) |             |
|                                                                                     |                                                               | 5/16" ID           | 7.9mm ID           | LC22005       | LCD22005     | 0.63 (16.0) | 1.35/1.85 (34.3/47.0) |             |
|                                                                                     |                                                               | 3/8" ID            | 9.5mm ID           | LC22006       | LCD22006     | 0.63 (16.0) | 1.35/1.83 (34.3/35.1) |             |
|  | <b>ELBOW<br/>FERRULELESS POLYTUBE<br/>FITTING, PTF†</b>       | 1/4" OD, 0.17" ID  | 6.4mm OD, 4.3mm ID | LC21004       | LCD21004     | 0.63 (16.0) | 1.28/1.43 (32.5/36.3) | 0.83 (21.1) |
|                                                                                     |                                                               | 3/8" OD, 1/4" ID   | 9.5mm OD, 6.4mm ID | LC21006       | LCD21006     | 0.63 (16.0) | 1.28/1.43 (32.5/36.3) | 0.96 (24.4) |
|  | <b>ELBOW<br/>HOSE BARB</b>                                    | 1/4" ID            | 6.4mm ID           | LC23004       | LCD23004     | 0.63/0.62   | 1.28/1.43 (32.5/36.3) | 1.28 (32.5) |
|                                                                                     |                                                               | 3/8" ID            | 9.5mm ID           | LC23006       | LCD23006     | 0.63/0.62   | 1.28/1.43 (32.5/36.3) | 1.28 (32.5) |

All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters. Couplings are pictured with valves unless otherwise noted.

†Note: CPC's Ferruleless PTF (polytube fitting) terminations do not require ferrules to achieve a secure connection and are therefore easier to use and reuse. PTF fittings are designed for semi-rigid tubing, i.e., polyethylene, nylon, polyurethane, etc. NOTE: Elbow configurations are available. Contact CPC for more information.

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