

# 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.

## FEATURES

Brass material

Chrome plating

High temperature capability

CPC thumb latch

Compatible

## BENEFITS

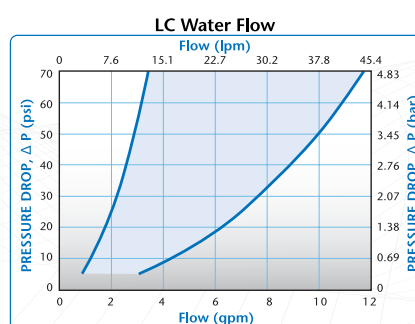
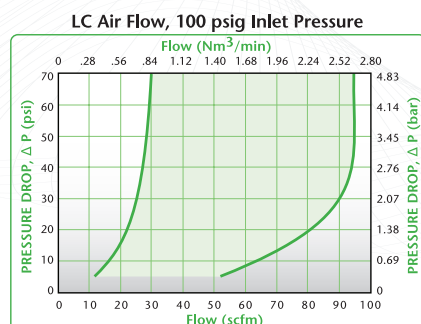
Durable construction withstands higher pressure and temperature

Attractive appearance

Versions rated to 400°F (204°C)

One-hand connection and disconnection

LC mates with PLC Series 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's products in their own application conditions.

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

*Also available in NSF  
listed versions for food-  
based applications, please  
visit our website for part  
number information.*



« 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.

**BUNA-N** is the most common o-ring seal due to its solvent, oil and water resistance. Temperature range is -40°F to 250°F.

**FKM** is best suited for applications where chemical and strong acid resistance and/or high temperatures are a requirement. The temperature range is -15°F to 400°F.

**EPDM** has excellent resistance to polar solvents. This o-ring is not compatible with petroleum. The temperature range is -70°F to 300°F.

**SILICONE** seals have good temperature resistance. The temperature range is -70°F to 400°F and with special compounds can reach 175°F to 450°F. Silicone can also be supplied with Class VI requirements for medical/bioprocessing applications.

For further information about which o-ring is best suited for your application, please contact CPC Customer Service at 1-800-444-2474 or 651-645-0091.

### NOTES:

## 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 at the right.

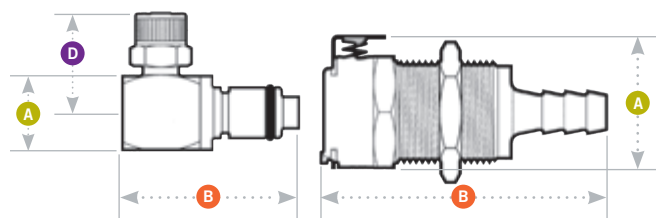
$$Q = C_v \sqrt{\frac{\Delta P}{S}}$$

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 FOR 1/4" FLOW LC COUPLINGS

BODIES	INSERTS	LC 20004	LCD 20004	LC 20006	LCD 20006	LC 22004	LCD 22004	LC 22006	LCD 22006	LC 24004	LCD 24004	LC 24006	LCD 24006	LC 26004
	LC10004	.40	.36	1.05	.58	.83	.56	1.40	.82	1.40	.75	1.40	.77	.83
	LCD10004	.36	.31	.73	.48	.66	.41	.82	.50	.80	.45	.77	.45	.81
	LC10006	.40	.36	1.05	.60	.83	.56	1.40	.81	1.40	.76	1.40	.76	.83
	LCD10006	.37	.31	.81	.47	.70	.43	1.02	.51	.98	.46	.99	.48	.98
	LC12006	.38	.36	.84	.63	.74	.56	1.14	.75	1.14	.70	1.14	.72	.74
	LCD12006	.38	.33	.78	.49	.68	.44	.84	.49	.81	.43	.82	.44	.81
	LC16004	.38	.37	.87	.54	.95	.51	1.00	.70	.95	.64	1.00	.66	.95
	LCD16004	.37	.31	.61	.44	.57	.41	.78	.44	.78	.43	.75	.46	.78
	LC16006	.38	.37	1.00	.57	.95	.53	1.40	.80	1.40	.71	1.40	.73	1.40
	LCD16006	.38	.32	.71	.49	.63	.42	.89	.51	.96	.45	.92	.49	.97

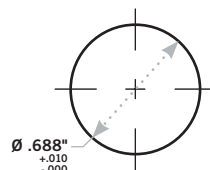
# LC DIMENSIONS



- A = Height/Diameter
- B = Total Length
- D = Elbow Radial Length

## Product Dimensions

	PANEL OPENING	PANEL THICKNESS MAX.-MIN.	PANEL NUT HEX	PANEL NUT THREAD
<b>COUPLING BODIES</b>	see drawing	.50 - .05	13/16	11/16-24UNEF
<b>COUPLING INSERTS</b>	see drawing	.090 - .300	13/16	11/16-24UNEF



## Coupling Bodies • CHROME-PLATED BRASS



**TERMINATION  
IN-LINE  
PIPE THREAD**



**PANEL MOUNT  
FERRULELESS  
POLYTUBE FITTING,  
PTF†**



**PANEL MOUNT  
HOSE BARB**



**PANEL MOUNT  
MALE THREAD**



**IN-LINE  
FERRULELESS  
POLYTUBE FITTING,  
PTF†**



**IN-LINE  
HOSE BARB**

### TUBING/THREAD SIZE METRIC EQ.

1/4" NPT  
1/4" BSPT  
3/8" NPT  
3/8" BSPT

6.4mm OD, 4.3mm ID  
9.5mm OD, 6.4mm ID

### STRAIGHT THRU

LC10004  
LC10004BSPT  
LC10006  
LC10006BSPT

### SHUTOFF

LCD10004  
LCD10004BSPT  
LCD10006  
LCD10006BSPT

A .88  
1.15  
1.15  
1.15

B 1.15  
1.15  
1.15  
1.15

1/4" OD, .17" ID  
3/8" OD, .25" ID

6.4mm OD, 4.3mm ID  
9.5mm OD, 6.4mm ID

LC12004  
LC12006

LCD12004  
LCD12006

A .88  
1.15  
1.15  
1.15

B 1.87  
2.00

1/4" ID  
5/16" ID  
3/8" ID

6.4mm ID  
7.9mm ID  
9.5mm ID

LC16004  
LC16005  
LC16006

LCD16004  
LCD16005  
LCD16006

A .88  
1.15  
1.15

B 2.00  
2.00  
2.00

1/4" NPT

LC15004

LCD15004

A .88  
1.15  
1.15

B 1.50

1/4" OD, .17" ID  
3/8" OD, .25" ID

6.4mm OD, 4.3mm ID  
9.5mm OD, 6.4mm ID

LC13004  
LC13006

LCD13004  
LCD13006

A .88  
1.15  
1.15

B 1.87  
2.00

1/4" ID  
5/16" ID  
3/8" ID

6.4mm ID  
7.9mm ID  
9.5mm ID

LC17004  
LC17005  
LC17006

LCD17004  
LCD17005  
LCD17006

A .88  
1.15  
1.15

B 2.00  
2.00  
2.00

All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters.  
†NOTE: CPC's Ferruleless Polytube Fitting terminations do not require ferrules to achieve a secure connection, which makes them easier to use and reuse. PTF fittings are designed for semi-rigid tubing, i.e., polyethylene, nylon, polyurethane, etc.

## Coupling Inserts • CHROME-PLATED BRASS



### TERMINATION IN-LINE PIPE THREAD



### IN-LINE PIPE THREAD (FEMALE)



### PANEL MOUNT FERRULELESS POLYTUBE FITTING, PTF†



### PANEL MOUNT HOSE BARB



### IN-LINE FERRULELESS POLYTUBE FITTING, PTF†



### IN-LINE HOSE BARB



### ELBOW FERRULELESS POLYTUBE FITTING, PTF†



### ELBOW HOSE BARB

#### TUBING/THREAD SIZE METRIC EQ.

1/4" NPT	LC24004
1/4" BSPT	LC24004BSPT
3/8" NPT	LC24006
3/8" BSPT	LC24006BSPT

#### STRAIGHT THRU

LC24004	LCD24004
LC24004BSPT	LCD24004BSPT
LC24006	LCD24006
LC24006BSPT	LCD24006BSPT

#### SHUTOFF

LCD24004	LCD24004
LCD24004BSPT	LCD24004BSPT
LCD24006	LCD24006
LCD24006BSPT	LCD24006BSPT

**A**

**B**

**D**

1/4" NPT Female	LC26004
1/4" BSPP Female	LC26004BSPP

LC26004	LCD26004
LC26004BSPP	LCD26004BSPP

LCD26004	LCD26004
LCD26004BSPP	LCD26004BSPP

.72	.72
.72	.72

1.25/1.68	1.25/1.68
1.25/1.55	1.25/1.55

1/4" OD, .17" ID	6.4mm OD, 4.3mm ID
3/8" OD, .25" ID	9.5mm OD, 6.4mm ID

LC40004	LC40006
LC40004	LC40006

LCD40004	LCD40006
LCD40004	LCD40006

.94	.94
.94	.94

1.83/1.98	1.96/2.11
1.96/2.11	1.96/2.11

1/4" ID	6.4mm ID
5/16" ID	7.9mm ID
3/8" ID	9.5mm ID

LC42004	LC42005
LC42005	LC42006
LC42006	LC42006

LCD42004	LCD42005
LCD42005	LCD42006
LCD42006	LCD42006

.94	.94	.94
.94	.94	.94
.94	.94	.94

1.96/2.11	1.96/2.11	1.96/2.11
1.96/2.11	1.96/2.11	1.96/2.11
1.96/2.11	1.96/2.11	1.96/2.11

1/4" OD, .17" ID	6.4mm OD, 4.3mm ID
3/8" OD, .25" ID	9.5mm OD, 6.4mm ID

LC20004	LC20006
LC20004	LC20006

LCD20004	LCD20006
LCD20004	LCD20006

.72	.72
.72	.72

1.25/1.87	1.38/1.83
1.38/1.83	1.38/1.83

1/4" ID	6.4mm ID
5/16" ID	7.9mm ID
3/8" ID	9.5mm ID

LC22004	LC22005
LC22005	LC22006
LC22006	LC22006

LCD22004	LCD22005
LCD22005	LCD22006
LCD22006	LCD22006

.63	.63	.63
.63	.63	.63
.63	.63	.63

1.35/2.00	1.35/1.85	1.35/1.83
1.35/1.85	1.35/1.85	1.35/1.85
1.35/1.83	1.35/1.83	1.35/1.83

1/4" OD, .17" ID	6.4mm OD, 4.3mm ID
3/8" OD, .25" ID	9.5mm OD, 6.4mm ID

LC21004	LC21006
LC21004	LC21006

LCD21004	LCD21006
LCD21004	LCD21006

.63	.63
.63	.63

1.28/1.43	1.28/1.43
1.28/1.43	1.28/1.43

.96	.83
.96	.83

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

LC23004	LC23006
LC23006	LC23006

LCD23004	LCD23006
LCD23006	LCD23006

.63/.62	.63/.62
.63/.62	.63/.62

1.28/1.43	1.28/1.43
1.28/1.43	1.28/1.43

1.28	1.28
1.28	1.28

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 Polytube Fitting terminations do not require ferrules to achieve a secure connection, which makes them easier to use and reuse. PTF fittings are designed for semi-rigid tubing, i.e., polyethylene, nylon, polyurethane, etc.