

# 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

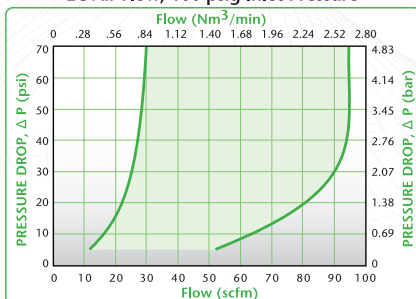
**WARNING:** Pressure, temperature, chemicals, and operating environment can affect the performance of couplings. It is the customer's responsibility to test the suitability of CPC's products in their own application conditions.

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

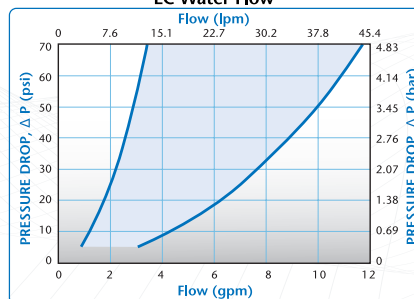
*Also available in NSF listed versions for food-based applications, please visit our website for part number information.*



LC Air Flow, 100 psig Inlet Pressure



LC Water Flow



◀ 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.

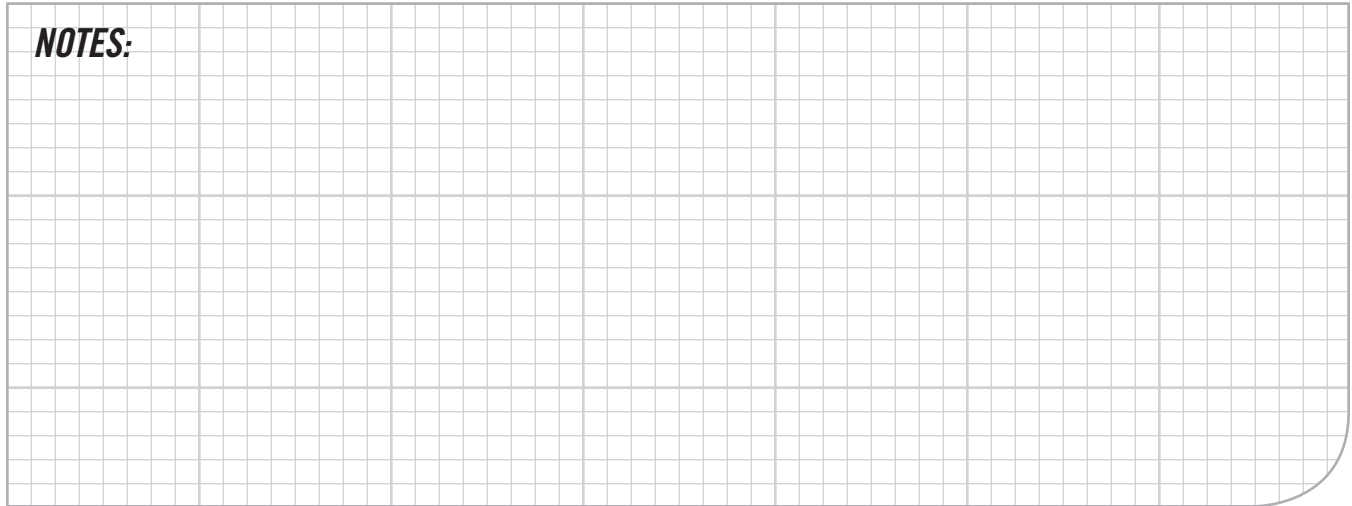
**FKM** is best suited for applications where chemical and strong acid resistance and/or high temperatures are a requirement. The temperature range is -15°F to 400°F.

**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.

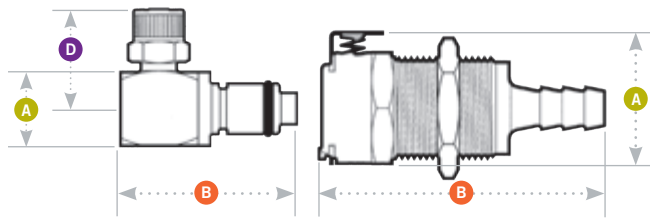
$$Q = C_v \sqrt{\frac{\Delta P}{S}}$$

- 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

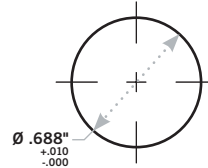
# LC DIMENSIONS



- 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

### TUBING/THREAD SIZE METRIC EQ.

### STRAIGHT THRU

### SHUTOFF

**A**

**B**

1/4" NPT		LC10004	LCD10004	.88	1.15
1/4" BSPT		LC10004BSPT	LCD10004BSPT	.88	1.15
3/8" NPT		LC10006	LCD10006	.88	1.15
3/8" BSPT		LC10006BSPT	LCD10006BSPT	.88	1.15

### PANEL MOUNT FERRULELESS POLYTUBE FITTING, PTF†

1/4" OD, .17" ID	6.4mm OD, 4.3mm ID	LC12004	LCD12004	.88	1.87
3/8" OD, .25" ID	9.5mm OD, 6.4mm ID	LC12006	LCD12006	.88	2.00

### PANEL MOUNT HOSE BARB

1/4" ID	6.4mm ID	LC16004	LCD16004	.88	2.00
5/16" ID	7.9mm ID	LC16005	LCD16005	.88	2.00
3/8" ID	9.5mm ID	LC16006	LCD16006	.88	2.00

### PANEL MOUNT MALE THREAD

1/4" NPT		LC15004	LCD15004	.88	1.50
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### IN-LINE FERRULELESS POLYTUBE FITTING, PTF†

1/4" OD, .17" ID	6.4mm OD, 4.3mm ID	LC13004	LCD13004	.88	1.87
3/8" OD, .25" ID	9.5mm OD, 6.4mm ID	LC13006	LCD13006	.88	2.00

### IN-LINE HOSE BARB

1/4" ID	6.4mm ID	LC17004	LCD17004	.88	2.00
5/16" ID	7.9mm ID	LC17005	LCD17005	.88	2.00
3/8" ID	9.5mm ID	LC17006	LCD17006	.88	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

#### TUBING/THREAD SIZE METRIC EQ.

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

#### STRAIGHT THRU

LC24004  
LC24004BSPT  
LC24006  
LC24006BSPT

#### SHUTOFF

LCD24004  
LCD24004BSPT  
LCD24006  
LCD24006BSPT

**A**  
.72

**B**  
1.25/1.68

**D**  
1.25/1.68

.72

1.25/1.68

.87

1.25/1.55

.87

1.25/1.55



### IN-LINE PIPE THREAD (FEMALE)

1/4" NPT Female  
1/4" BSPP Female

LC26004  
LC26004BSPP

LCD26004  
LCD26004BSPP

.72

1.25/1.90

.72

1.25/1.75



### PANEL MOUNT FERRULELESS POLYTUBE FITTING, PTF†

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

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

LC40004  
LC40006

LCD40004  
LCD40006

.94

1.83/1.98

.94

1.96/2.11



### PANEL MOUNT HOSE BARB

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

6.4mm ID  
7.9mm ID  
9.5mm ID

LC42004  
LC42005  
LC42006

LCD42004  
LCD42005  
LCD42006

.94

1.96/2.11

.94

1.96/2.11

.94

1.96/2.11



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

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

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

LC20004  
LC20006

LCD20004  
LCD20006

.72

1.25/1.87

.72

1.38/1.83



### IN-LINE HOSE BARB

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

6.4mm ID  
7.9mm ID  
9.5mm ID

LC22004  
LC22005  
LC22006

LCD22004  
LCD22005  
LCD22006

.63

1.35/2.00

.63

1.35/1.85

.63

1.35/1.83



### ELBOW FERRULELESS POLYTUBE FITTING, PTF†

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

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

LC21004  
LC21006

LCD21004  
LCD21006

.63

1.28/1.43

.63

1.28/1.43

.96

.83



### ELBOW HOSE BARB

1/4" ID  
3/8" ID

6.4mm ID  
9.5mm ID

LC23004  
LC23006

LCD23004  
LCD23006

.63/.62

1.28/1.43

.63/.62

1.28/1.43

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.