

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:

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.

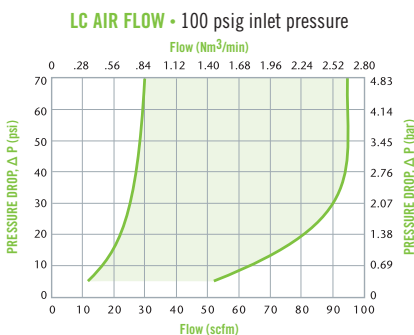
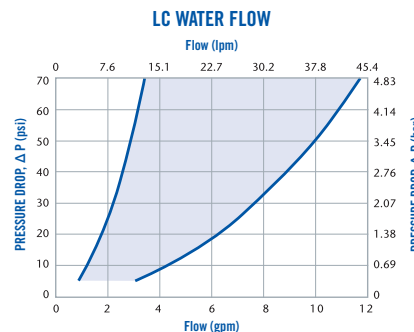


cpcworldwide.com/LC

FEATURES

- Brass material → 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

BENEFITS



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

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_v = Average coefficient across various flow rates (see chart)
- ΔP = Pressure drop across coupling (psi)
- S = Specific gravity of liquid







C_v VALUES

INSERTS

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	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

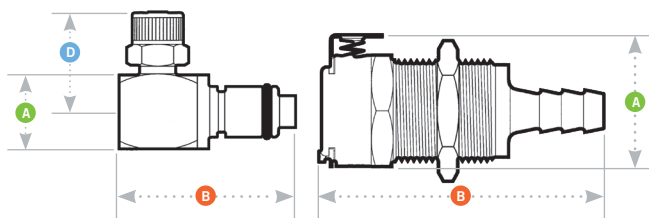
COUPLING BODIES - Chrome-plated brass

TERMINATION	TUBING/THREAD SIZE	METRIC EQ	STRAIGHT THRU	SHUTOFF	A	B
 IN-LINE 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 FERRULELESS POLYTUBE FITTING, 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 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 MALE THREAD	1/4" NPT		LC15004	LCD15004	0.88 (22.4)	1.5 (38.1)
 IN-LINE FERRULELESS POLYTUBE FITTING, 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 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	0.88 (22.4)	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.

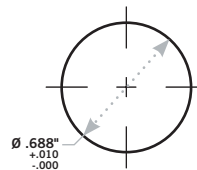
PRODUCT DIMENSIONS











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

PANEL DIMENSIONS

	PANEL OPENING	PANEL THICKNESS MAX.-MIN.	PANEL NUT HEX	PANEL NUT 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
 IN-LINE PIPE THREAD	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)	
 IN-LINE PIPE THREAD (FEMALE)	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)	
 PANEL MOUNT FERRULELESS POLYTUBE FITTING, PTF†	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)	
 PANEL MOUNT HOSE BARB	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)	
 IN-LINE FERRULELESS POLYTUBE FITTING, PTF†	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)	
 IN-LINE HOSE BARB	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)	
 ELBOW FERRULELESS POLYTUBE FITTING, PTF†	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)
 ELBOW HOSE BARB	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.