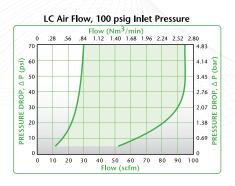
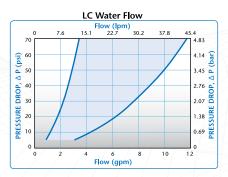
LC SERIES CONNECTOR



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	BENEFITS			
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 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

0-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.

ratings to 400 F. Call

more information.

listed versions for foodbased 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.



Liquid Flow Rate Information for Couplings

C_v values for 1/4" flow LC 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

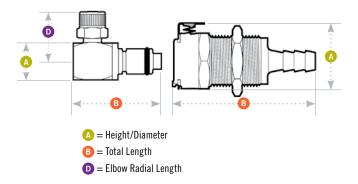
 $\mathbf{C}_{\mathbf{v}} \; = \; \mathsf{Average} \; \mathsf{coefficient} \; \mathsf{across} \; \mathsf{various}$ flow rates (see chart)

ΔP= Pressure drop across coupling (psi)

S = Specific gravity of liquid

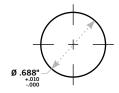
BODIES INSERTS	LC 20004	LCD 20004	LC 20006	LCD 20006	LC 22004	LCD 22004	LC 22006	LCD 22006	LC 24004	LCD 24004	LC 24006	LCD 24006	LC 26004
LC10004	.40	.36	1.05	.58	.83	.56	1.40	.82	1.40	.75	1.40	.77	.83
LCD10004	.36	.31	.73	.48	.66	.41	.82	.50	.80	.45	.77	.45	.81
LC10006	.40	.36	1.05	.60	.83	.56	1.40	.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



Product Dimensions

	PANEL OPENING	PANEL THICKNESS MAXMIN.	PANEL NUT HEX	PANEL NUT THREAD
COUPLING BODIES	see drawing	.50 — .05	13/16	11/16-24UNEF
COUPLING INSERTS	see drawing	.090– .300	13/16	11/16-24UNEF



Coupling Bodies • CHROME-PLATED BRASS

DE P	TERMINATION IN-LINE PIPE THREAD	TUBING/THREAD SIZE 1/4" NPT 1/4" BSPT 3/8" NPT 3/8" BSPT	METRIC EQ.	STRAIGHT THRU LC10004 LC10004BSPT LC10006 LC10006BSPT	SHUTOFF LCD10004 LCD10004BSPT LCD10006 LCD10006BSPT	.88 .88 .88	B 1.15 1.15 1.15 1.15
D-Ph	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	LC12004 LC12006	LCD12004 LCD12006	.88 .88	1.87 2.00
A Paris	PANEL MOUNT Hose Barb	1/4" ID 5/16" ID 3/8" ID	6.4mm ID 7.9mm ID 9.5mm ID	LC16004 LC16005 LC16006	LCD16004 LCD16005 LCD16006	.88 .88 .88	2.00 2.00 2.00
	PANEL MOUNT Male Thread	1/4" NPT		LC15004	LCD15004	.88	1.50
	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	LC13004 LC13006	LCD13004 LCD13006	.88 .88	1.87 2.00
	IN-LINE HOSE BARB	1/4" ID 5/16" ID 3/8" ID	6.4mm ID 7.9mm ID 9.5mm ID	LC17004 LC17005 LC17006	LCD17004 LCD17005 LCD17006	.88 .88 .88	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

O TOPO	TERMINATION IN-LINE PIPE THREAD	TUBING/THREAD SIZE 1/4" NPT 1/4" BSPT 3/8" NPT 3/8" BSPT	METRIC EQ.	STRAIGHT THRU LC24004 LC24004BSPT LC24006 LC24006BSPT	SHUTOFF LCD24004 LCD24004BSPT LCD24006 LCD24006BSPT	.72 .72 .87 .87	B 1.25/1.68 1.25/1.68 1.25/1.55 1.25/1.55	0
P	IN-LINE PIPE THREAD (FEMALE)	1/4" NPT Female 1/4" BSPP Female		LC26004 LC26004BSPP	LCD26004 LCD26004BSPP	.72 .72	1.25/1.90 1.25/1.75	•
O BA	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 .94	1.83/1.98 1.96/2.11	••••••••••••
A PROPERTY OF THE PARTY OF THE	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 .94 .94	1.96/2.11 1.96/2.11 1.96/2.11	•
OFTON	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	LCD20004 LCD20006	.72 .72	1.25/1.87 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 .63 .63	1.35/2.00 1.35/1.85 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	LCD21004 LCD21006	.63 .63	1.28/1.43 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 .63/.62	1.28/1.43 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.