



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.

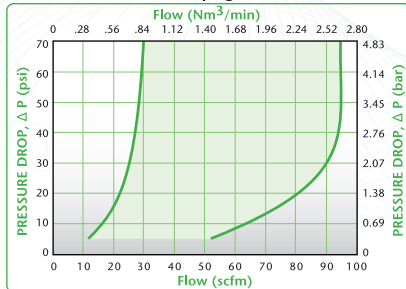
FEATURES

- Brass material
- Chrome plating
- High temperature capability
- CPC thumb latch
- Compatible

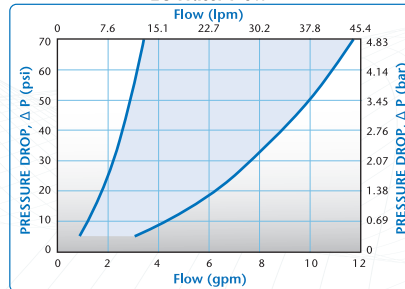
BENEFITS

- 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

LC Air Flow, 100 psig Inlet Pressure



LC Water Flow



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

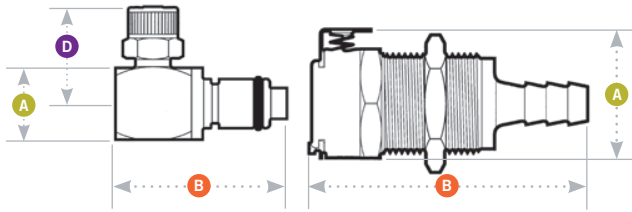
The chart below shows the flow rate for CPC couplings. Each coupling was tested with water at 70°F (21°C). To determine flow rates for specific coupling configurations use the formula at the right.

C_v VALUES FOR 1/4" FLOW LC COUPLINGS

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

- 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

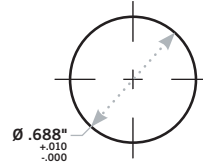
BODIES	INSERTS	LC 20004	LCD 20004	LC 20006	LCD 20006	LC 22004	LCD 22004	LC 22006	LCD 22006	LC 24004	LCD 24004	LC 24006	LCD 24006	LC 26004
LC10004		.40	.36	1.05	.58	.83	.56	1.40	.82	1.40	.75	1.40	.77	.83
LCD10004		.36	.31	.73	.48	.66	.41	.82	.50	.80	.45	.77	.45	.81
LC10006		.40	.36	1.05	.60	.83	.56	1.40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



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

Product Dimensions

	PANEL OPENING	PANEL THICKNESS MAX.-MIN.	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



TERMINATION IN-LINE PIPE THREAD

TUBING/THREAD SIZE	METRIC EQ.
1/4" NPT	
1/4" BSPT	
3/8" NPT	
3/8" BSPT	

STRAIGHT THRU
LC10004
LC10004BSPT
LC10006
LC10006BSPT

SHUTOFF
LCD10004
LCD10004BSPT
LCD10006
LCD10006BSPT

A	B
.88	1.15
.88	1.15
.88	1.15
.88	1.15

PANEL MOUNT FERRULELESS POLYTUBE FITTING, PTF†

TUBING/THREAD SIZE	METRIC EQ.
1/4" OD, .17" ID	6.4mm OD, 4.3mm ID
3/8" OD, .25" ID	9.5mm OD, 6.4mm ID

STRAIGHT THRU
LC12004
LC12006

SHUTOFF
LCD12004
LCD12006

A	B
.88	1.87
.88	2.00

PANEL MOUNT HOSE BARB

TUBING/THREAD SIZE	METRIC EQ.
1/4" ID	6.4mm ID
5/16" ID	7.9mm ID
3/8" ID	9.5mm ID

STRAIGHT THRU
LC16004
LC16005
LC16006

SHUTOFF
LCD16004
LCD16005
LCD16006

A	B
.88	2.00
.88	2.00
.88	2.00

PANEL MOUNT MALE THREAD

TUBING/THREAD SIZE
1/4" NPT

STRAIGHT THRU
LC15004

SHUTOFF
LCD15004

A	B
.88	1.50

IN-LINE FERRULELESS POLYTUBE FITTING, PTF†

TUBING/THREAD SIZE	METRIC EQ.
1/4" OD, .17" ID	6.4mm OD, 4.3mm ID
3/8" OD, .25" ID	9.5mm OD, 6.4mm ID

STRAIGHT THRU
LC13004
LC13006

SHUTOFF
LCD13004
LCD13006

A	B
.88	1.87
.88	2.00

IN-LINE HOSE BARB

TUBING/THREAD SIZE	METRIC EQ.
1/4" ID	6.4mm ID
5/16" ID	7.9mm ID
3/8" ID	9.5mm ID

STRAIGHT THRU
LC17004
LC17005
LC17006

SHUTOFF
LCD17004
LCD17005
LCD17006

A	B
.88	2.00
.88	2.00
.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

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

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

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

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

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

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

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

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

STRAIGHT THRU

LC24004
LC24004BSPT
LC24006
LC24006BSPT

LC26004
LC26004BSPP

LC40004
LC40006

LC42004
LC42005
LC42006

LC20004
LC20006

LC22004
LC22005
LC22006

LC21004
LC21006

LC23004
LC23006

SHUTOFF

LCD24004
LCD24004BSPT
LCD24006
LCD24006BSPT

LCD26004
LCD26004BSPP

LCD40004
LCD40006

LCD42004
LCD42005
LCD42006

LCD20004
LCD20006

LCD22004
LCD22005
LCD22006

LCD21004
LCD21006

LCD23004
LCD23006

A

B

D

.72 1.25/1.68
.72 1.25/1.68
.87 1.25/1.55
.87 1.25/1.55

.72 1.25/1.90
.72 1.25/1.75

.94 1.83/1.98
.94 1.96/2.11

.94 1.96/2.11
.94 1.96/2.11
.94 1.96/2.11

.72 1.25/1.87
.72 1.38/1.83

.63 1.35/2.00
.63 1.35/1.85
.63 1.35/1.83

.63 1.28/1.43 .83
.63 1.28/1.43 .96

.63/.62 1.28/1.43 1.28
.63/.62 1.28/1.43 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.

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