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**SPECS &
INFORMATION**

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

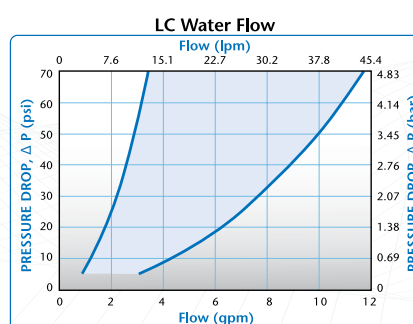
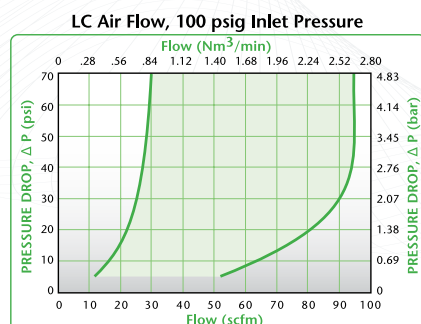
Durable construction withstands higher pressure and temperature

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.

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.

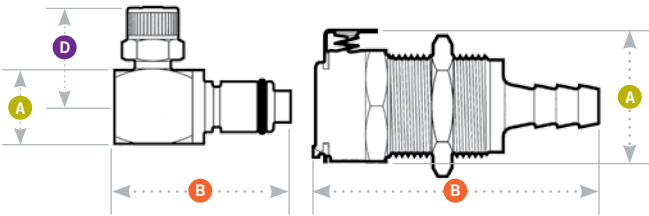
$$Q = C_v \sqrt{\frac{\Delta P}{S}}$$

Q = Flow rate in gallons per minute
C_v = Average coefficient across various flow rates (see chart)
ΔP = Pressure drop across coupling (psi)
S = Specific gravity of liquid

C_v 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

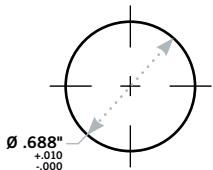
LC DIMENSIONS



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

Product Dimensions

	PANEL OPENING	PANEL THICKNESS MAX.-MIN.	PANEL NUT HEX	PANEL NUT THREAD
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.	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
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



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.

STRAIGHT THRU

SHUTOFF

A

B

D

1/4" NPT	LC24004	LCD24004	.72	1.25/1.68
1/4" BSPT	LC24004BSPT	LCD24004BSPT	.72	1.25/1.68
3/8" NPT	LC24006	LCD24006	.87	1.25/1.55
3/8" BSPT	LC24006BSPT	LCD24006BSPT	.87	1.25/1.55

1/4" NPT Female	LC26004	LCD26004	.72	1.25/1.90
1/4" BSPP Female	LC26004BSPP	LCD26004BSPP	.72	1.25/1.75

1/4" OD, .17" ID	6.4mm OD, 4.3mm ID	LC40004	LCD40004	.94	1.83/1.98
3/8" OD, .25" ID	9.5mm OD, 6.4mm ID	LC40006	LCD40006	.94	1.96/2.11

1/4" ID	6.4mm ID	LC42004	LCD42004	.94	1.96/2.11
5/16" ID	7.9mm ID	LC42005	LCD42005	.94	1.96/2.11
3/8" ID	9.5mm ID	LC42006	LCD42006	.94	1.96/2.11

1/4" OD, .17" ID	6.4mm OD, 4.3mm ID	LC20004	LCD20004	.72	1.25/1.87
3/8" OD, .25" ID	9.5mm OD, 6.4mm ID	LC20006	LCD20006	.72	1.38/1.83

1/4" ID	6.4mm ID	LC22004	LCD22004	.63	1.35/2.00
5/16" ID	7.9mm ID	LC22005	LCD22005	.63	1.35/1.85
3/8" ID	9.5mm ID	LC22006	LCD22006	.63	1.35/1.83

1/4" OD, .17" ID	6.4mm OD, 4.3mm ID	LC21004	LCD21004	.63	1.28/1.43	.96
3/8" OD, .25" ID	9.5mm OD, 6.4mm ID	LC21006	LCD21006	.63	1.28/1.43	.83

1/4" ID	6.4mm ID	LC23004	LCD23004	.63/.62	1.28/1.43	1.28
3/8" ID	9.5mm ID	LC23006	LCD23006	.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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